



FCC RADIO TEST REPORT

Applicant : COMTREND CORPORATION

Address : 3F-1, 10 Lane 609, Chongxin Rd., Section 5,
Sanchong Dist, New Taipei City 241405, Taiwan

Equipment : Home Gateway

Model No. : WAP-60AXd, WAP-60AX, WAP-5945s, WAP-5945

Trade Name : COMTREND

FCC ID : L9VWAP60AXD

I HEREBY CERTIFY THAT :

The sample was received on Oct. 14, 2020 and the testing was completed on Oct. 06, 2021 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

| FCC Rule | Description of Test | Result |
|------------------|---|--------|
| 15.203 | . Antenna Requirement | PASS |
| 15.207 | . AC Power Line Conducted Emission | PASS |
| 15.209 15.205 | . Radiated Spurious Emission | PASS |
| 15.247(d) | . Conducted Spurious Emission | PASS |
| 15.247(a)(2) | . 6dB Bandwidth | PASS |
| 15.247(b) | . Maximum Peak and Average Output Power | PASS |
| 15.247(e) | . Power Spectral Density | PASS |
| 2.1091 | . Radio Frequency Exposure | PASS |

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD2010059).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment

| | |
|---------------------------|--|
| Operation Frequency Range | 802.11b/g/n/ax: 2400-2483.5MHz 802.11a/n/ac/ax: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz |
| Center Frequency Range | 802.11b/g/n/ax: 2412MHz~2462MHz 802.11a/n/ac/ax: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz |
| Modulation Type | WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM |
| Modulation Technology | DSSS, OFDM, OFDMA |
| Data Rate | WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS31, HT20/40 802.11ax: MCS0 – MCS11, HE20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS31, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80/160 802.11ax: MCS0 – MCS11, HE20/40/80 |
| Antenna Type | PIFA Antenna |
| Antenna Gain | 2400-2483.5MHz: ANT B: 3.07dBi, ANT C: 3.4dBi, ANT D: 2.87dBi, ANT E: 4.02dBi 5150-5250MHz: ANT A: 2.74dBi, ANT B: 3.37dBi, ANT C: 3.37dBi, ANT D: 3.28dBi, ANT E: 3.37dBi 5250-5350MHz: ANT A: 2.59dBi, ANT B: 3.44dBi, ANT C: 3.44dBi, ANT D: 3.25dBi, ANT E: 3.44dBi 5470-5725MHz: ANT A: 3.84dBi, ANT B: 3.45dBi, ANT C: 3.45dBi, ANT D: 3.34dBi, ANT E: 3.45dBi 5725-5850MHz: ANT A: 4.25dBi, ANT B: 3.19dBi, ANT C: 3.19dBi, ANT D: 3.29dBi, ANT E: 3.19dBi |
| Adapter | 1. Brand: Amigo, Model: AMS200-1202000FU 2. Brand: ChenZhou Frecom Electronics Co., Ltd., Model: F24L9-120200SPAU |
| Firmware Number | CEU-2.0.1 |
| Serial Number | 20A5945SXXF-A9100001 |

Note:

1. EUT support TPC Function.
2. WLAN 2.4G and WLAN 5G can simultaneously transmission.
3. EUT support Master Mode.
4. EUT support AP Mode.



- 5. WLAN 2.4GHz 802.11n and 802.11ax support beamforming Function.
- 6. WLAN 5GHz 802.11n and 802.11ac and 802.11ax support beamforming Function.
- 7. For more details, please refer to the User's manual of the EUT.

Difference description:

| Model No. | Remark |
|-----------|---|
| WAP-60AX | 1. 1x ETH port version. |
| WAP-5945 | 2. The difference between WAP-60AX and WAP-5945 is Market Segmentation. |
| WAP-60AXd | 1. 2x ETH port version. |
| WAP-5945s | 2. The difference between WAP-60AXd and WAP-5945s is Market Segmentation. |



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, 802.11ax HE20 (2412MHz~2462MHz)

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| *01 | 2412 | 07 | 2442 |
| 02 | 2417 | 08 | 2447 |
| 03 | 2422 | 09 | 2452 |
| 04 | 2427 | 10 | 2457 |
| 05 | 2432 | *11 | 2462 |
| *06 | 2437 | --- | --- |

802.11n HT40, 802.11ax HE40 (2422MHz~2452MHz)

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|------------|----------------|------------|----------------|
| --- | --- | 07 | 2442 |
| --- | --- | 08 | 2447 |
| *03 | 2422 | *09 | 2452 |
| 04 | 2427 | --- | --- |
| 05 | 2432 | --- | --- |
| *06 | 2437 | --- | --- |

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included Remote workstation and EUT for RF test. The Remote workstation included Notebook.
- c. An executive program, " wl commend" under Windows OS system was executed to transmit and receive data via WLAN.
- d. The following test modes were performed for the test:

| Conducted Emissions from the AC mains power ports | |
|---|---|
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , (120V/60 Hz) |
| 2 | 802.11g (6Mbps) , (120V/60 Hz) |
| 3 | 802.11n HT20 (6.5Mbps) , (120V/60 Hz) |
| 4 | 802.11n HT40 (13.5Mbps) , (120V/60 Hz) |
| 5 | 802.11ax HE20 (7.3Mbps) , (120V/60 Hz) |
| 6 | 802.11ax HE40 (14.6Mbps) , (120V/60 Hz) |
| 7 | 802.11b (1Mbps) , (240V/60 Hz) |
| 8 | 802.11g (6Mbps) , (240V/60 Hz) |
| 9 | 802.11n HT20 (6.5Mbps) , (240V/60 Hz) |
| 10 | 802.11n HT40 (13.5Mbps) , (240V/60 Hz) |
| 11 | 802.11ax HE20 (7.3Mbps) , (240V/60 Hz) |
| 12 | 802.11ax HE40 (14.6Mbps) , (240V/60 Hz) |

caused "Test Mode 6" generated the worst case, it was reported as the final data.



| Radiation Emissions ((9KHz ~30MHz & 30MHz ~ 1GHz)) | |
|---|--|
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , Non BeamForming |
| 2 | 802.11g (6Mbps) , Non BeamForming |
| 3 | 802.11n HT20 (6.5Mbps) , Non BeamForming |
| 4 | 802.11n HT40 (13.5Mbps) , Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) , Non BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) , Non BeamForming |
| 7 | 802.11n HT20 (6.5Mbps) , BeamForming |
| 8 | 802.11n HT40 (13.5Mbps) , BeamForming |
| 9 | 802.11ax HE20 (7.3Mbps) , BeamForming |
| 10 | 802.11ax HE40 (14.6Mbps) , BeamForming |
| caused "Test Mode 6, 10" generated the worst case, it was reported as the final data. | |
| Radiation Emissions (1GHz ~ 25GHz) | |
| Test Mode | Operating Description |
| 1 | 802.11b (1Mbps) , Non BeamForming |
| 2 | 802.11g (6Mbps) , Non BeamForming |
| 3 | 802.11n HT20 (6.5Mbps) , Non BeamForming |
| 4 | 802.11n HT40 (13.5Mbps) , Non BeamForming |
| 5 | 802.11ax HE20 (7.3Mbps) , Non BeamForming |
| 6 | 802.11ax HE40 (14.6Mbps) , Non BeamForming |
| 7 | 802.11n HT20 (6.5Mbps) , BeamForming |
| 8 | 802.11n HT40 (13.5Mbps) , BeamForming |
| 9 | 802.11ax HE20 (7.3Mbps) , BeamForming |
| 10 | 802.11ax HE40 (14.6Mbps) , BeamForming |
| caused "Test Mode 1~10" generated the worst case, they were reported as the final data. | |

There are two adapters:

Adapter 1.Brand: Amigo, Model: AMS200-1202000FU

Adapter 2.Brand: ChenZhou Frecom Electronics Co., Ltd., Model: F24L9-120200SPAU

For AC Power Line Conducted Emission, adapter 2 is worst case.

For Radiated Spurious Emission, adapter 1 is worst case.

The EUT incorporates a MIMO function

| Modulation Type | TX CONFIGURATION |
|-----------------|------------------|
| 802.11b | 4TX |
| 802.11g | 4TX |
| 802.11n HT20 | 4TX |
| 802.11n HT40 | 4TX |
| 802.11ax HE20 | 4TX |
| 802.11ax HE40 | 4TX |



2.4 Description of Test System

Non-Beamforming

| RF Conducted | | | | |
|----------------------------------|-------|----------------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 1.2m / NS | N/A |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 15m / NS | N/A |
| AC Power Line Conducted Emission | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | DELL | Latitude E5270 | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 1.2m / NS | N/A |

Beamforming

| RF Conducted | | | | |
|--------------------|----------|-------------|-------------|------------------------|
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| Notebook | DELL | Vostro 3560 | N/A | Adapter / 1.8m / NS |
| AP | Comtrand | WAP-5945s | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 1.2m / NS | N/A |
| RJ45 Cable | N/A | N/A | 1.2m / NS | N/A |
| Radiated Emissions | | | | |
| Equipment | Brand | Model | Length/Type | Power cord/Length/Type |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| Notebook | ASUS | P2430U | N/A | Adapter / 1.8m / NS |
| AP | Comtrand | WAP-5945s | N/A | Adapter / 1.8m / NS |
| RJ45 Cable | N/A | N/A | 1.2m / NS | N/A |
| RJ45 Cable | N/A | N/A | 15m / NS | N/A |

**2.5 General Information of Test**

| | | |
|-------------------------------|--|--|
| Test Site | CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 | |
| | FCC | TW1079, TW1439 |
| | IC | 4934E-1, 4934E-2 |
| | VCCI | T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz |
| Frequency Range Investigated: | Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz | |
| Test Distance: | The test distance of radiated emission from antenna to EUT is 3 M. | |

Non-Beamforming

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|----------------------------------|------------|-----------------------|--------------------------|-----------|
| RF Conducted | RFCON01-NK | 2021/02/23~2021/02/25 | 22~25°C / 42~44% | Nick Guan |
| Radiated Emissions (Abover 1GHz) | 3M02-NK | 2020/11/14~2021/02/04 | 23~24°C / 42~48% | Nick Guan |
| Radiated Emissions (Below 1GHz) | 3M02-NK | 2021/07/28 | 24°C / 45% | Nick Guan |
| AC Power Line Conducted Emission | CON01-NK | 2021/10/06 | 26°C / 55% | Dian Chen |

Beamforming

| Test Item | Test Site | Test period | Environmental Conditions | Tested By |
|--------------------|------------|-----------------------|--------------------------|-----------|
| RF Conducted | RFCON01-NK | 2021/09/06~2021/09/09 | 26~28°C / 48~51% | Nick Guan |
| Radiated Emissions | 3M02-NK | 2021/07/26~2021/09/04 | 23~25°C / 44~48% | Nick Guan |



2.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Non-Beamforming

| Measurement Item | Uncertainty |
|--|-------------|
| AC Power Line Conduction(150K~30MHz) | ±3.63dB |
| Radiated Spurious Emission(9KHz~30MHz) | ±3.4dB |
| Radiated Spurious Emission(30MHz~1GHz) | ±5.6dB |
| Radiated Spurious Emission(1GHz~25GHz) | ±6.597dB |
| Conducted Spurious Emission | ±2.022dB |
| 6dB Bandwidth | ±4.482% |
| 20dB Bandwidth | ±4.40% |
| Occupied Bandwidth | ±4.40% |
| Peak Output Power(Conducted Power Meter) | ±1.02dB |
| Dwell Time | ±3.49% |
| Power Spectral Density | ±1.963dB |
| Duty Cycle | ±3.47% |

Beamforming

| Measurement Item | Uncertainty |
|--|-------------|
| Radiated Spurious Emission(9KHz~30MHz) | ±3.4dB |
| Radiated Spurious Emission(30MHz~1GHz) | ±5.6dB |
| Radiated Spurious Emission(1GHz~25GHz) | ±6.6dB |
| Conducted Spurious Emission | ±1.8dB |
| 6dB Bandwidth | ±4.4% |
| 20dB Bandwidth | ±4.4% |
| Occupied Bandwidth | ±4.4% |
| Peak Output Power(Conducted Power Meter) | ±1.1dB |
| Dwell Time / Deactivation Time | ±1.2% |
| Power Spectral Density | ±1.8dB |
| Duty Cycle | ±1.2% |



3. Test Equipment and Ancillaries Used for Tests

Non-Beamforming

| Test Item | Radiated Emissions (Abover 1GHz) | | | | |
|---------------------|----------------------------------|--------------|--------------------|------------------|------------|
| Test Site | Semi Anechoic Room(3M02-NK) | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Horn Antenna | EMCO | 3115 | 31601 | 2020/10/16 | 2021/10/15 |
| Horn Anrenna | EMCO | 3116 | 31974 | 2020/09/24 | 2021/09/23 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 102151 | 2020/08/03 | 2021/08/02 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2020/03/16 | 2021/03/15 |
| Preamplifier | EMC INSTRUMENTS | EMC184045 | 980065 | 2020/11/06 | 2021/11/05 |
| Cable-0.5m(1G-18G) | HUBER SUHNER | SUCOFLEX 100 | 805443/4 | 2020/05/27 | 2021/05/26 |
| Cable-3m(1G-18G) | HUBER SUHNER | SUCOFLEX 100 | 805796/4 | 2020/05/27 | 2021/05/26 |
| Cable-8m(1G-18G) | HUBER SUHNER | SUCOFLEX 100 | 805795/4 | 2020/05/27 | 2021/05/26 |
| Cable-0.5m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | 28420/2 | 2020/04/01 | 2021/03/31 |
| Cable-3m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | MY2608/2 | 2020/04/01 | 2021/03/31 |
| Cable-0.5m(1G-40G) | Rapidtek | 40GHZ 50CM | 38MS-38MS50 314 | 2020/04/09 | 2021/04/08 |
| E3 | AUDIX | v8.2014-8-6 | RK-000529 | NA | NA |

| Test Item | Radiated Emissions (Below 1GHz) | | | | |
|---------------------|---------------------------------|---------------|-----------|------------------|------------|
| Test Site | Semi Anechoic Room(3M02-NK) | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Bilog Antenna | Schwarzbeck | VULB9168 | 369 | 2021/04/26 | 2022/04/25 |
| Active Loop Antenna | EMCO | 6507 | 40855 | 2021/06/10 | 2022/06/09 |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101423 | 2021/06/30 | 2022/06/29 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 102151 | 2021/07/14 | 2022/07/13 |
| Preamplifier | EM Electronics corp. | EM330 | 60658 | 2020/10/20 | 2021/10/19 |
| Preamplifier | EM Electronics corp. | EM330 | 60660 | 2021/03/18 | 2022/03/17 |
| Cable-3in1(30M-1G) | HARBOUR INDUSTRIES | LL142 | CCE1315 | 2021/04/12 | 2022/04/11 |
| Cable-0.5m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | 28420/2 | 2021/04/03 | 2022/04/02 |
| Cable-3m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | MY2608/2 | 2021/04/09 | 2022/04/08 |
| Cable-6m(9k~300M) | NA | CFD300-NL | NA | 2021/03/15 | 2022/03/14 |
| Cable-6m(9k~300M) | NA | EMC5D-BM-BM-6 | 130605 | 2020/09/18 | 2021/09/17 |
| E3 | AUDIX | v8.2014-8-6 | RK-000529 | NA | NA |



Non-Beamforming

| Test Item | RF Conducted | | | | |
|-------------------------|-----------------|----------|-------------|------------------|------------|
| Test Site | RFCON01-NK | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 101329 | 2020/07/07 | 2021/07/06 |
| Bluetooth Tester | ROHDE & SCHWARZ | CBT | 101133 | 2020/04/07 | 2021/04/06 |
| CAX Signal Analyzer | KEYSIGHT | N9000B | MY57100339 | 2020/12/25 | 2021/12/24 |
| Attenuator | KEYSIGHT | 8491B | MY39250703 | 2020/04/17 | 2021/04/16 |
| TEMP & HUMIDITY CHAMBER | T-MACHINE | TMJ-9712 | T-12-040111 | 2020/08/25 | 2021/08/24 |
| Power Meter | Anritsu | ML2495A | 1224005 | 2020/04/17 | 2021/04/16 |
| Power Sensor | Anritsu | MA2411B | 1207295 | 2020/04/17 | 2021/04/16 |

| Test Item | AC Power Line Conducted Emission | | | | |
|--------------------------------------|----------------------------------|-------------|-----------|------------------|------------|
| Test Site | CON01-NK | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101402 | 2021/03/12 | 2022/03/11 |
| Line Impedance Stabilization Network | Schwarzbeck | NSLK 8127 | 8127-568 | 2021/06/02 | 2022/06/01 |
| Pulse Limiter | ROHDE & SCHWARZ | ESH3-Z2 | 101934 | 2021/03/10 | 2022/03/09 |
| Cable-6m(9k~300M) | NA | CFD300-NL | NA | 2021/03/15 | 2022/03/14 |
| E3 | AUDIX | v8.2014-8-6 | RK-000531 | NA | NA |



Beamforming

| Test Item | Radiated Emissions | | | | |
|---------------------|-----------------------------|-----------------|--------------------|------------------|------------|
| Test Site | Semi Anechoic Room(3M02-NK) | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Bilog Antenna | Schwarzbeck | VULB9168 | 369 | 2021/04/26 | 2022/04/25 |
| Active Loop Antenna | EMCO | 6507 | 40855 | 2021/06/10 | 2022/06/09 |
| Horn Antenna | EMCO | 3115 | 31601 | 2020/10/16 | 2021/10/15 |
| Horn Antenna | EMCO | 3116 | 31974 | 2020/09/24 | 2021/09/23 |
| EMI Receiver | ROHDE & SCHWARZ | ESCI | 101423 | 2021/06/30 | 2022/06/29 |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 102151 | 2021/07/14 | 2022/07/13 |
| Preamplifier | EM Electronics corp. | EM330 | 60658 | 2020/10/20 | 2021/10/19 |
| Preamplifier | EM Electronics corp. | EM330 | 60660 | 2021/03/18 | 2022/03/17 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2021/03/22 | 2022/03/21 |
| Preamplifier | EMC INSTRUMENTS | EMC184045 | 980065 | 2020/11/06 | 2021/11/05 |
| Bluetooth Tester | ROHDE & SCHWARZ | CBT | 101133 | 2021/04/19 | 2022/04/18 |
| Cable-3in1(30M-1G) | HARBOUR INDUSTRIES | LL142 | CCE1315 | 2021/04/12 | 2022/04/11 |
| Cable-0.5m(1G-18G) | EMEC | EM104-SMSM-0.5M | CCE1354 | 2021/05/06 | 2022/05/05 |
| Cable-3m(1G-18G) | EMEC | EM104-SMSM-3M | CCE1355 | 2021/05/06 | 2022/05/05 |
| Cable-8m(1G-18G) | EMEC | EM104-SMSM-8M | CCE1356 | 2021/05/06 | 2022/05/05 |
| Cable-0.5m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | 28420/2 | 2021/04/03 | 2022/04/02 |
| Cable-3m(30M-40G) | HUBER SUHNER | SUCOFLEX 102 | MY2608/2 | 2021/04/09 | 2022/04/08 |
| Cable-0.5m(1G-40G) | Rapidtek | 40GHZ 50CM | 38MS-38MS50 314 | 2021/04/08 | 2022/04/07 |
| Cable-6m(9k~300M) | NA | CFD300-NL | NA | 2021/03/15 | 2022/03/14 |
| Cable-6m(9k~300M) | NA | EMC5D-BM-BM-6 | 130605 | 2020/09/18 | 2021/09/17 |
| E3 | AUDIX | v8.2014-8-6 | RK-000529 | NA | NA |

| Test Item | RF Conducted | | | | |
|-------------------------|-----------------|----------|-------------|------------------|------------|
| Test Site | RFCON01-NK | | | | |
| Instrument | Manufacturer | Model No | Serial No | Calibration Date | Valid Date |
| Spectrum Analyzer | ROHDE & SCHWARZ | FSV 40-N | 102151 | 2021/07/14 | 2022/07/13 |
| Bluetooth Tester | ROHDE & SCHWARZ | CBT | 101133 | 2021/04/19 | 2022/04/18 |
| CAX Signal Analyzer | KEYSIGHT | N9000B | MY57100339 | 2020/12/25 | 2021/12/24 |
| Attenuator | KEYSIGHT | 8491B | MY39250703 | 2021/04/09 | 2022/04/08 |
| TEMP & HUMIDITY CHAMBER | T-MACHINE | TMJ-9712 | T-12-040111 | 2021/08/27 | 2022/08/26 |
| Power Meter | Anritsu | ML2495A | 1224005 | 2021/04/14 | 2022/04/13 |
| Power Sensor | Anritsu | MA2411B | 1207295 | 2021/04/14 | 2022/04/13 |



4. Antenna Requirements

4.1 Antenna Construction and Directional Gain

| | |
|--------------|--|
| Antenna Type | PIFA Antenna |
| Antenna Gain | 2400-2483.5MHz: ANT B: 3.07dBi, ANT C: 3.4dBi, ANT D: 2.87dBi, ANT E: 4.02dBi |

Non-Beamforming

2400-2483.5MHz

For Power directional gain= G_{ant} = 4.02 dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 9.37 (dBi)

*MIMO type: Cyclic Delay Diversity (CDD) mode.

Beamforming

For Power directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 9.37 (dBi)

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 9.37 (dBi)



5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB μ V) | Average (dB μ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5 | 66-56* | 56-46* |
| 0.5 – 5.0 | 56 | 46 |
| 5.0 – 30.0 | 60 | 50 |

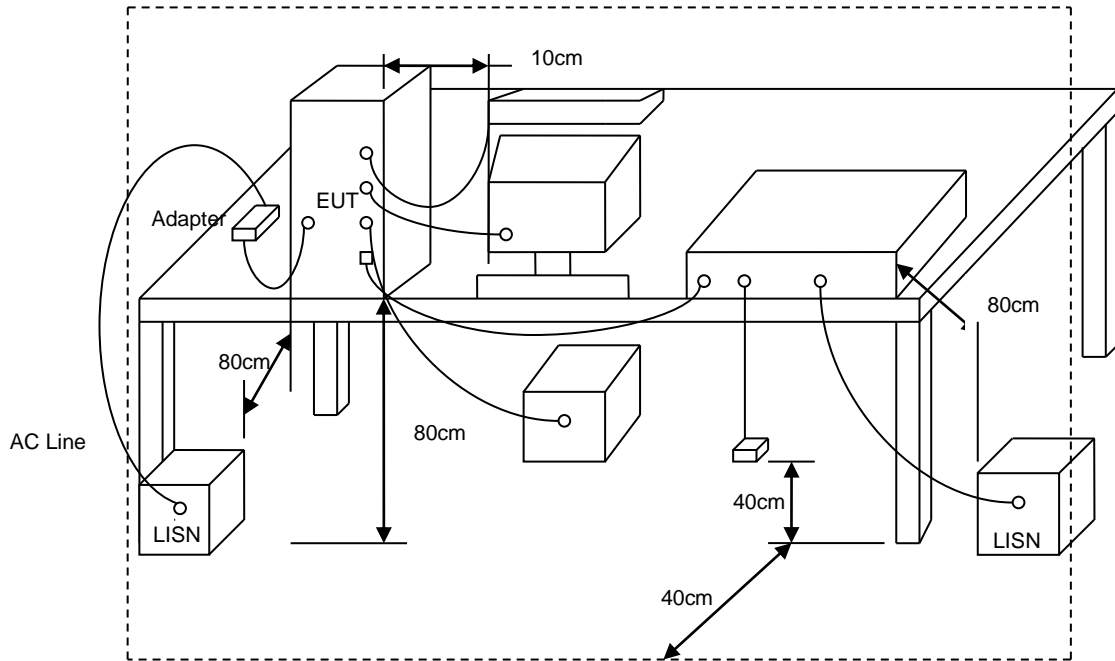
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



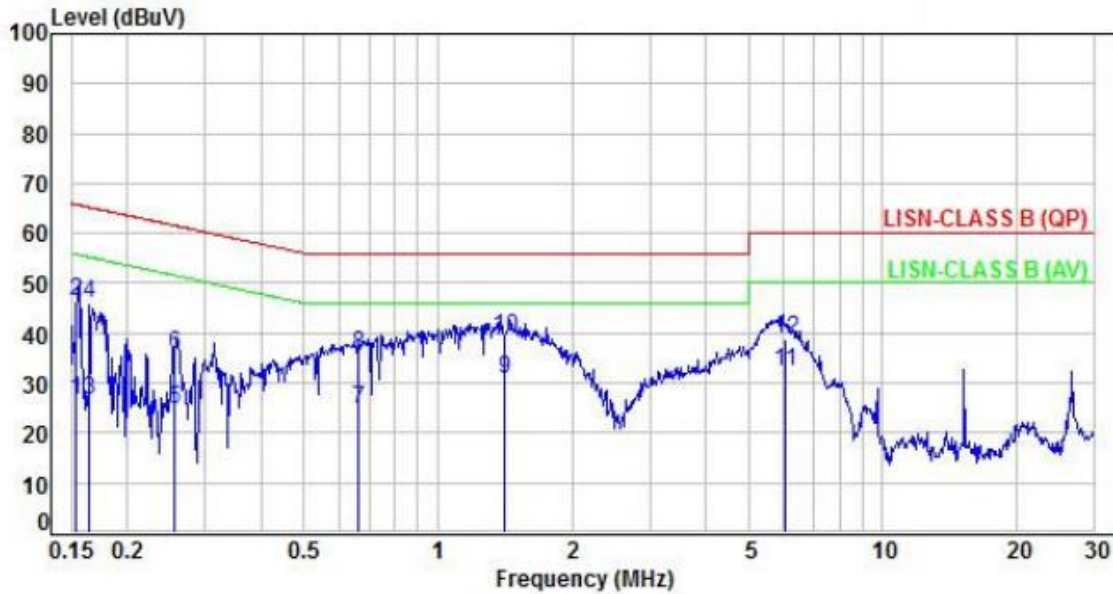
5.3 Typical Test Setup





5.4 Test Result and Data

| | | | |
|-----------|------------------|-----------|--------|
| Power | : AC 120V / 60Hz | Pol/Phase | : LINE |
| Test Mode | : Mode 6 | | |

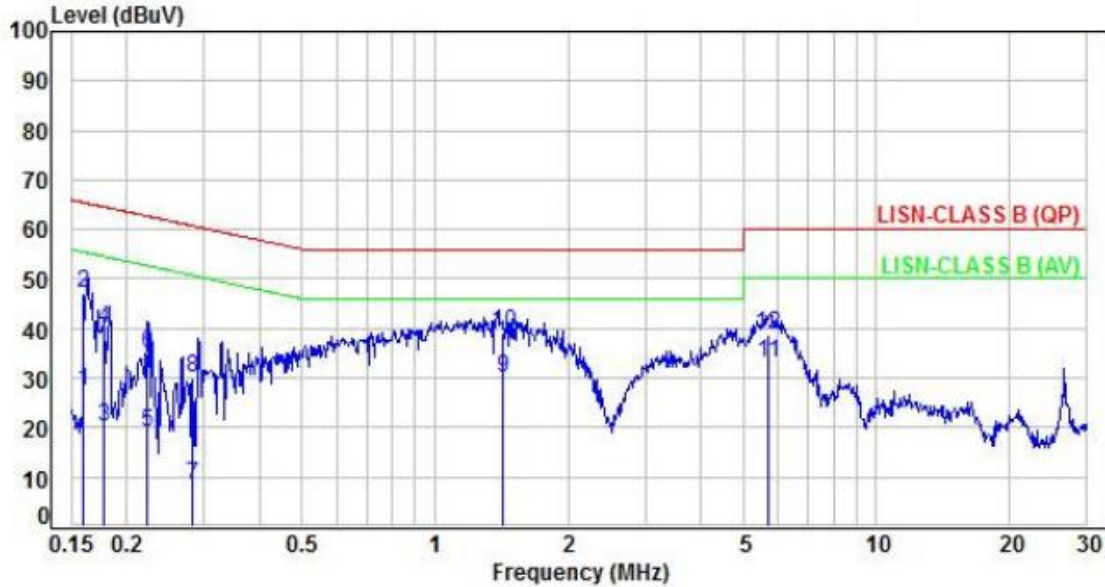


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.15 | 9.97 | 16.68 | 26.65 | 55.84 | -29.19 | Average | P |
| 2 | 0.15 | 9.97 | 36.32 | 46.29 | 65.84 | -19.55 | QP | P |
| 3 | 0.16 | 9.97 | 16.51 | 26.48 | 55.27 | -28.79 | Average | P |
| 4 | 0.16 | 9.97 | 35.88 | 45.85 | 65.27 | -19.42 | QP | P |
| 5 | 0.26 | 9.97 | 14.70 | 24.67 | 51.57 | -26.90 | Average | P |
| 6 | 0.26 | 9.97 | 25.79 | 35.76 | 61.57 | -25.81 | QP | P |
| 7 | 0.67 | 10.02 | 14.69 | 24.71 | 46.00 | -21.29 | Average | P |
| 8 | 0.67 | 10.02 | 25.74 | 35.76 | 56.00 | -20.24 | QP | P |
| 9 | 1.41 | 10.08 | 20.59 | 30.67 | 46.00 | -15.33 | Average | P |
| 10 | 1.41 | 10.08 | 29.08 | 39.16 | 56.00 | -16.84 | QP | P |
| 11 | 6.02 | 10.27 | 22.16 | 32.43 | 50.00 | -17.57 | Average | P |
| 12 | 6.02 | 10.27 | 28.42 | 38.69 | 60.00 | -21.31 | QP | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



| | | | |
|-----------|------------------|-----------|-----------|
| Power | : AC 120V / 60Hz | Pol/Phase | : NEUTRAL |
| Test Mode | : Mode 6 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-----|
| 1 | 0.16 | 9.97 | 17.38 | 27.35 | 55.50 | -28.15 | Average | P |
| 2 | 0.16 | 9.97 | 37.27 | 47.24 | 65.50 | -18.26 | QP | P |
| 3 | 0.18 | 9.97 | 10.15 | 20.12 | 54.62 | -34.50 | Average | P |
| 4 | 0.18 | 9.97 | 30.14 | 40.11 | 64.62 | -24.51 | QP | P |
| 5 | 0.22 | 9.97 | 9.13 | 19.10 | 52.71 | -33.61 | Average | P |
| 6 | 0.22 | 9.97 | 25.07 | 35.04 | 62.71 | -27.67 | QP | P |
| 7 | 0.28 | 9.97 | -1.50 | 8.47 | 50.73 | -42.26 | Average | P |
| 8 | 0.28 | 9.97 | 20.19 | 30.16 | 60.73 | -30.57 | QP | P |
| 9 | 1.42 | 10.07 | 20.05 | 30.12 | 46.00 | -15.88 | Average | P |
| 10 | 1.42 | 10.07 | 28.96 | 39.03 | 56.00 | -16.97 | QP | P |
| 11 | 5.67 | 10.24 | 22.72 | 32.96 | 50.00 | -17.04 | Average | P |
| 12 | 5.67 | 10.24 | 28.72 | 38.96 | 60.00 | -21.04 | QP | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

| Frequency (MHz) | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|-----------------|----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |



6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

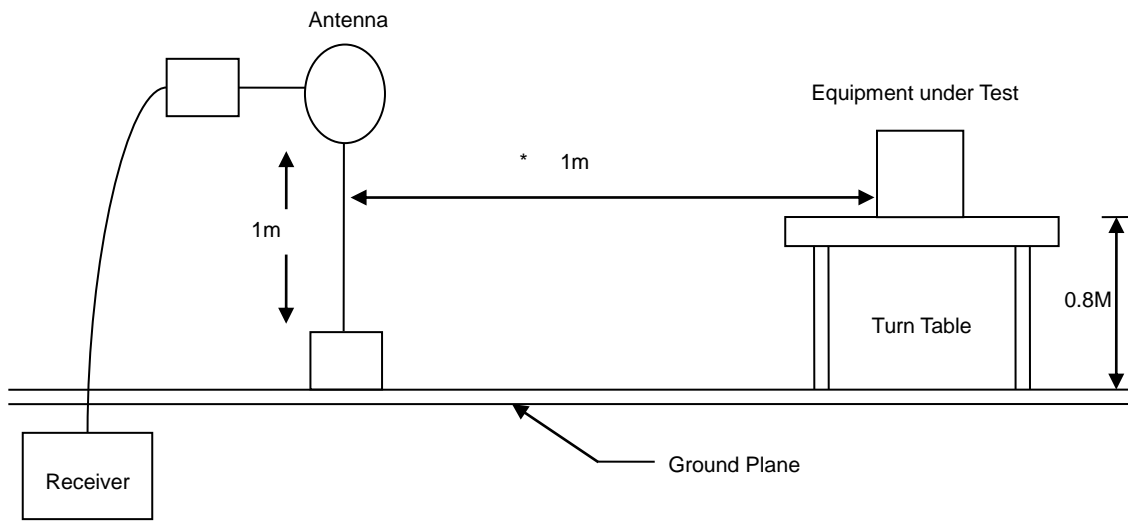
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

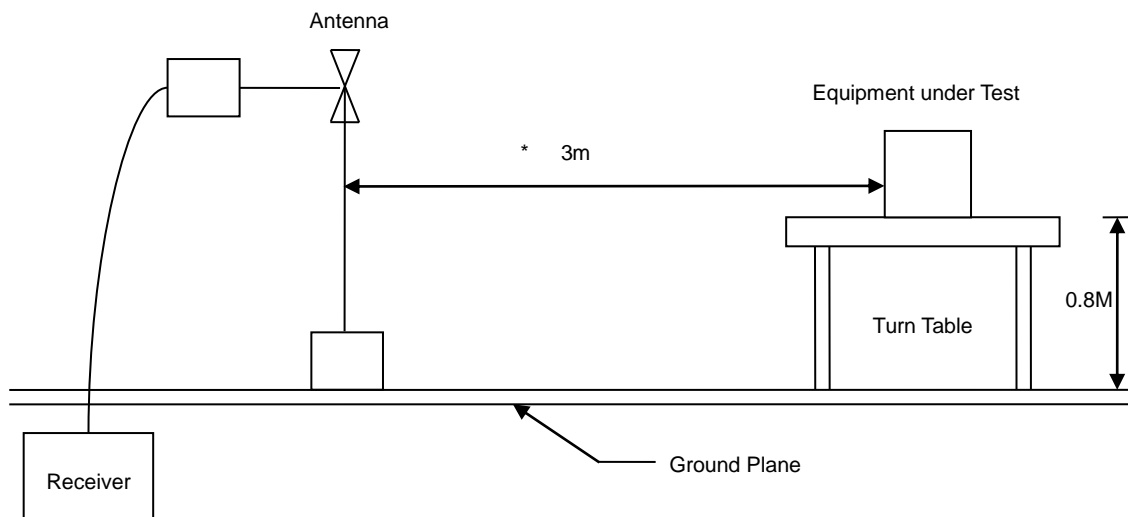


Typical Test Setup

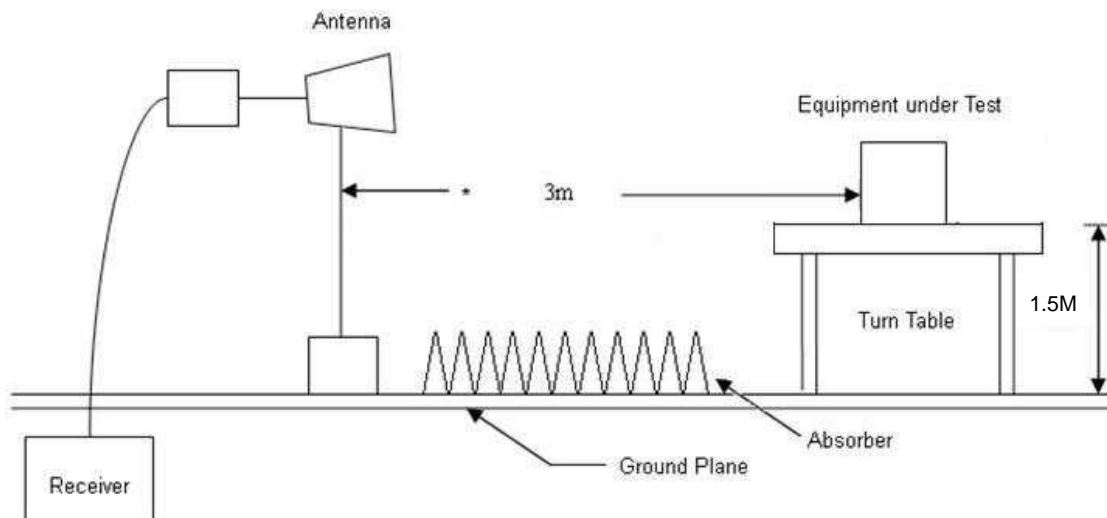
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



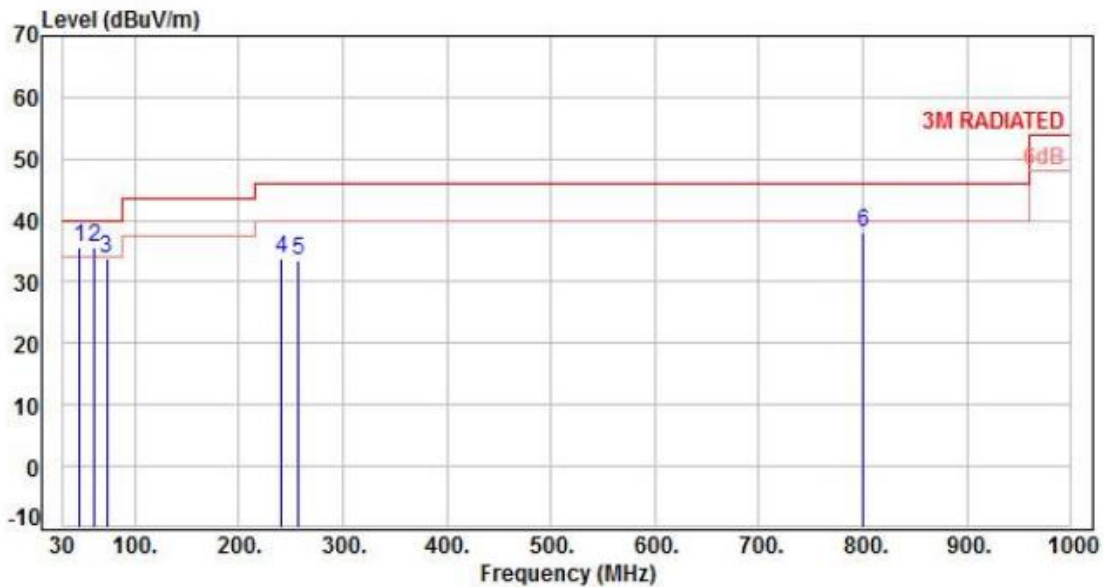


6.3 Test Result and Data (9KHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.4 Test Result and Data (30MHz ~ 1GHz)

| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6 | | : |

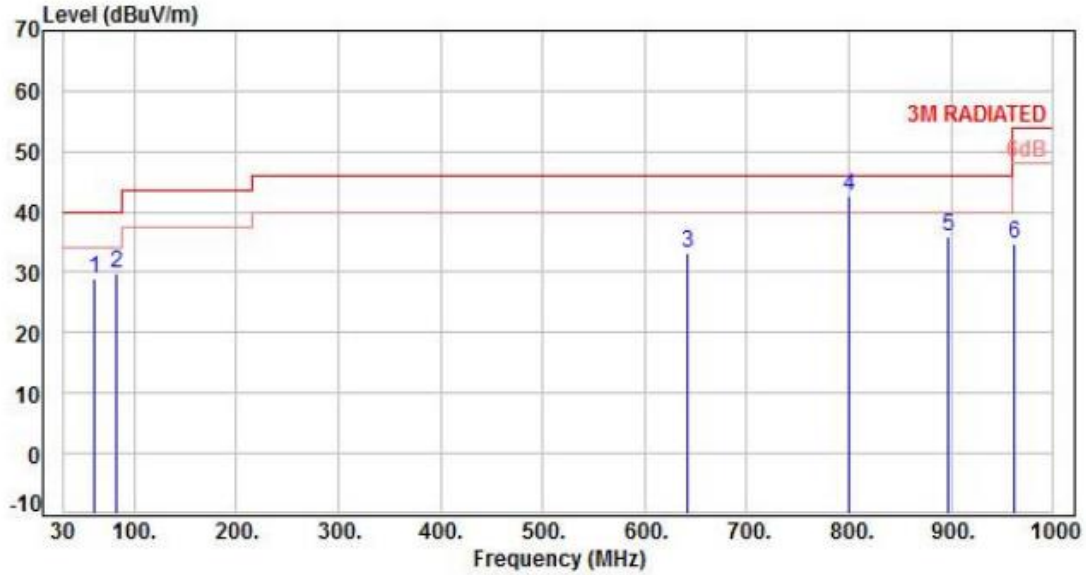


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 47.46 | -10.57 | 46.13 | 35.56 | 40.00 | -4.44 | Peak | 400 | 0 | P |
| 2 | 61.04 | -11.77 | 47.43 | 35.66 | 40.00 | -4.34 | Peak | 400 | 0 | P |
| 3 | 72.68 | -13.21 | 46.88 | 33.67 | 40.00 | -6.33 | Peak | 400 | 0 | P |
| 4 | 241.46 | -11.87 | 45.71 | 33.84 | 46.00 | -12.16 | Peak | 400 | 0 | P |
| 5 | 256.98 | -11.26 | 44.66 | 33.40 | 46.00 | -12.60 | Peak | 400 | 0 | P |
| 6 | 800.18 | 0.62 | 37.29 | 37.91 | 46.00 | -8.09 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6 | | : |

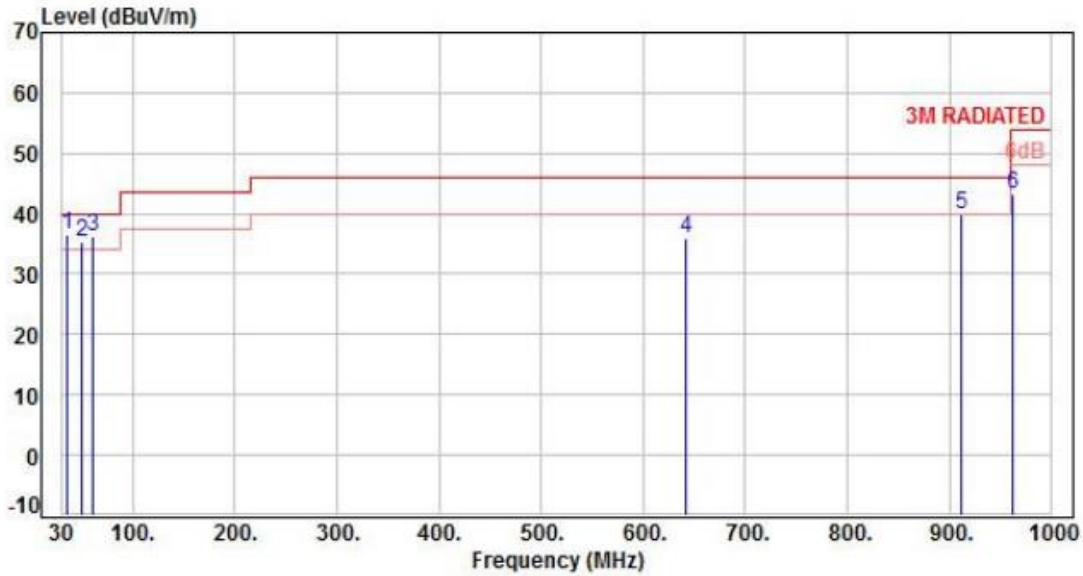


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 61.04 | -11.77 | 40.62 | 28.85 | 40.00 | -11.15 | Peak | 400 | 0 | P |
| 2 | 82.38 | -15.22 | 44.92 | 29.70 | 40.00 | -10.30 | Peak | 400 | 0 | P |
| 3 | 641.10 | -1.97 | 35.27 | 33.30 | 46.00 | -12.70 | Peak | 400 | 0 | P |
| 4 | 800.18 | 0.62 | 42.12 | 42.74 | 46.00 | -3.26 | Peak | 400 | 0 | P |
| 5 | 897.18 | 1.85 | 34.02 | 35.87 | 46.00 | -10.13 | Peak | 400 | 0 | P |
| 6 | 961.20 | 2.84 | 31.99 | 34.83 | 54.00 | -19.17 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 10 | | : |

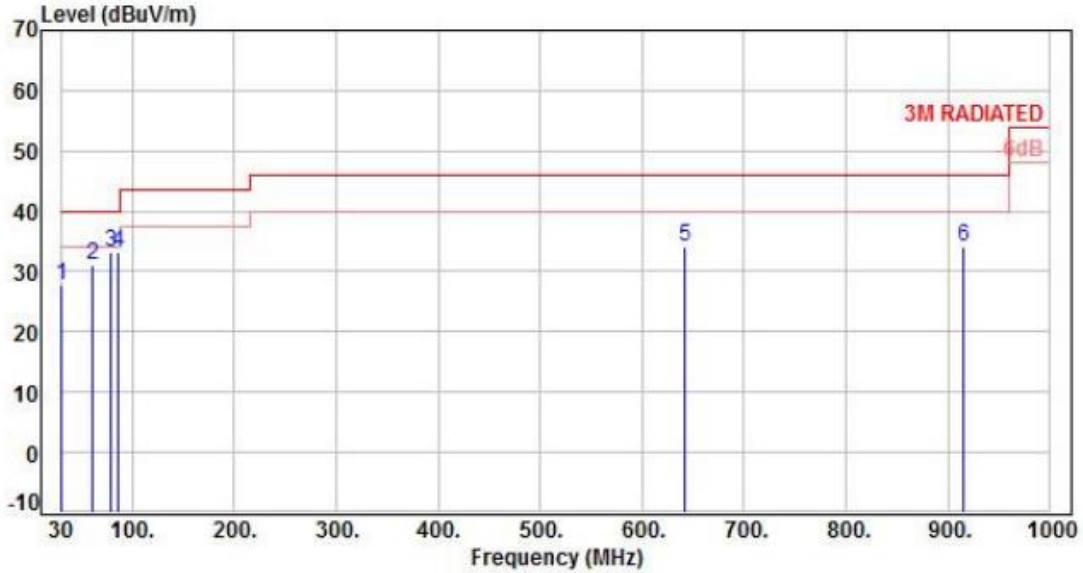


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 35.82 | -11.60 | 48.27 | 36.67 | 40.00 | -3.33 | Peak | 400 | 0 | P |
| 2 | 49.40 | -10.66 | 46.13 | 35.47 | 40.00 | -4.53 | Peak | 400 | 0 | P |
| 3 | 61.04 | -11.77 | 47.99 | 36.22 | 40.00 | -3.78 | Peak | 400 | 0 | P |
| 4 | 641.10 | -1.97 | 37.80 | 35.83 | 46.00 | -10.17 | Peak | 400 | 0 | P |
| 5 | 910.76 | 2.12 | 37.69 | 39.81 | 46.00 | -6.19 | Peak | 400 | 0 | P |
| 6 | 961.20 | 2.84 | 40.54 | 43.38 | 54.00 | -10.62 | Peak | 400 | 0 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 10 | | : |



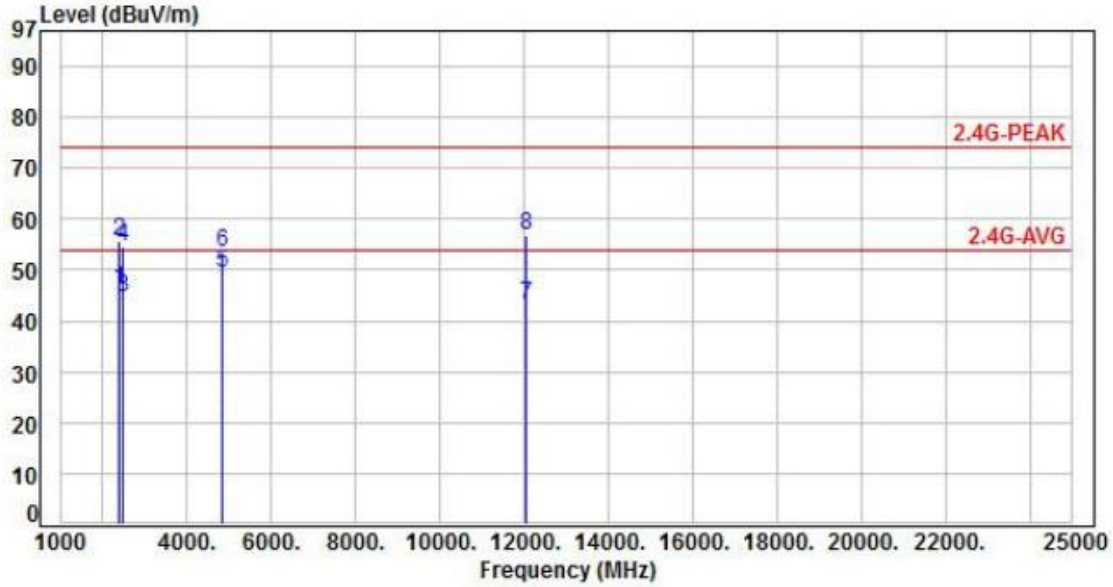
| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 30.00 | -11.62 | 39.32 | 27.70 | 40.00 | -12.30 | Peak | 400 | 360 | P |
| 2 | 61.04 | -11.77 | 42.97 | 31.20 | 40.00 | -8.80 | Peak | 400 | 360 | P |
| 3 | 78.50 | -14.39 | 47.63 | 33.24 | 40.00 | -6.76 | Peak | 400 | 360 | P |
| 4 | 86.26 | -16.21 | 49.54 | 33.33 | 40.00 | -6.67 | Peak | 400 | 360 | P |
| 5 | 641.10 | -1.97 | 36.11 | 34.14 | 46.00 | -11.86 | Peak | 400 | 360 | P |
| 6 | 914.64 | 2.21 | 32.02 | 34.23 | 46.00 | -11.77 | Peak | 400 | 360 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.5 Test Result and Data (1GHz ~ 25GHz)

| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH01 | | : |

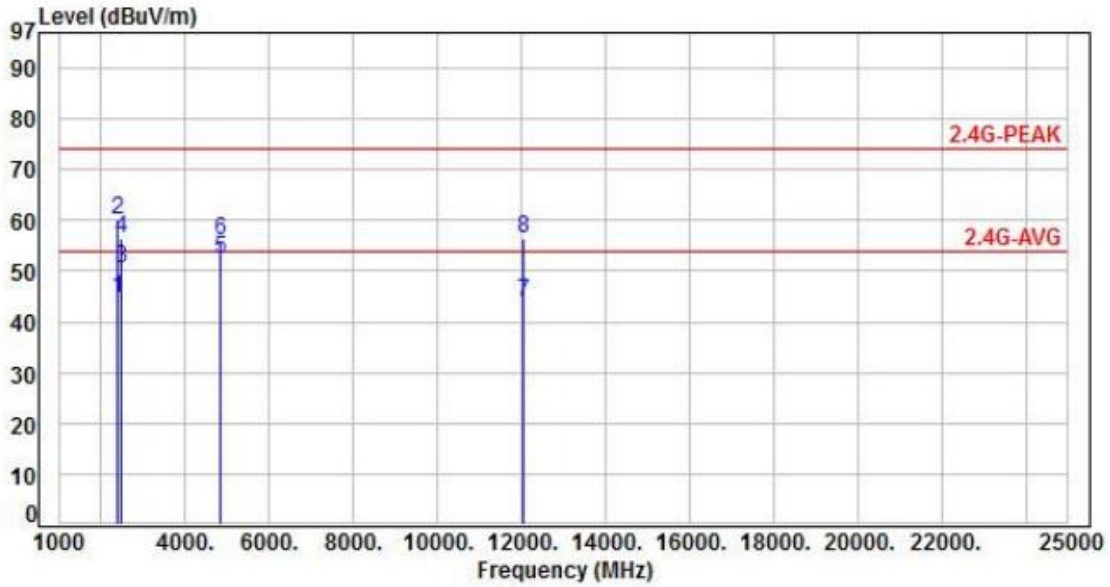


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 49.14 | 46.25 | 54.00 | -7.75 | Average | 100 | 299 | P |
| 2 | 2390.00 | -2.89 | 58.63 | 55.74 | 74.00 | -18.26 | Peak | 100 | 299 | P |
| 3 | 2483.50 | -2.66 | 47.23 | 44.57 | 54.00 | -9.43 | Average | 100 | 245 | P |
| 4 | 2483.50 | -2.66 | 57.39 | 54.73 | 74.00 | -19.27 | Peak | 100 | 245 | P |
| 5 | 4824.00 | 4.73 | 44.66 | 49.39 | 54.00 | -4.61 | Average | 400 | 78 | P |
| 6 | 4824.00 | 4.73 | 48.60 | 53.33 | 74.00 | -20.67 | Peak | 400 | 78 | P |
| 7 | 12060.00 | 14.70 | 28.48 | 43.18 | 54.00 | -10.82 | Average | 132 | 87 | P |
| 8 | 12060.00 | 14.70 | 41.94 | 56.64 | 74.00 | -17.36 | Peak | 132 | 87 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH01 | | : |

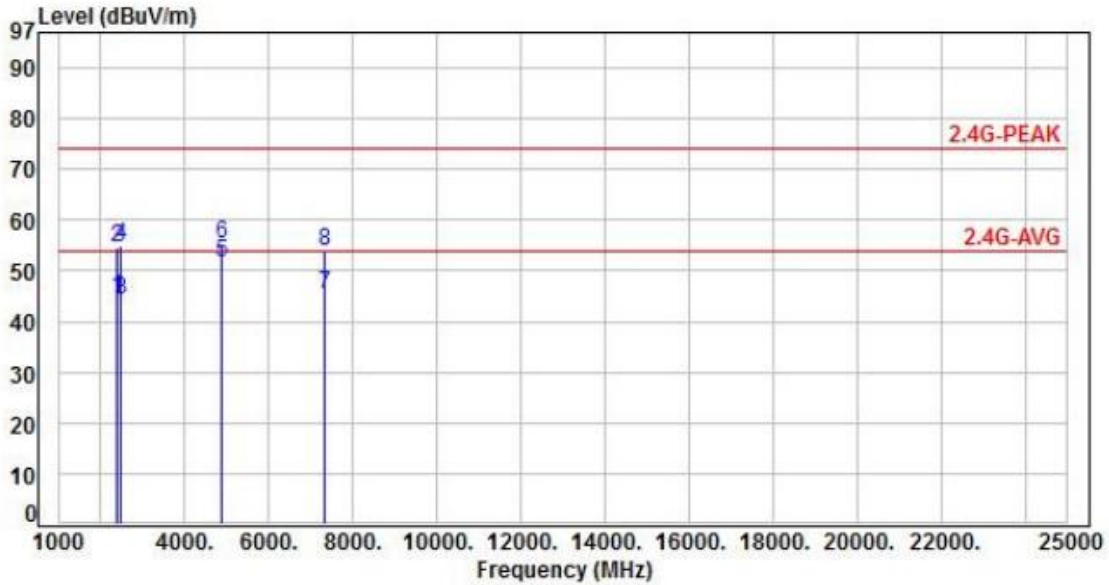


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 47.37 | 44.48 | 54.00 | -9.52 | Average | 230 | 85 | P |
| 2 | 2390.00 | -2.89 | 62.84 | 59.95 | 74.00 | -14.05 | Peak | 230 | 85 | P |
| 3 | 2483.50 | -2.66 | 53.15 | 50.49 | 54.00 | -3.51 | Average | 100 | 110 | P |
| 4 | 2483.50 | -2.66 | 59.25 | 56.59 | 74.00 | -17.41 | Peak | 100 | 110 | P |
| 5 | 4824.00 | 4.73 | 47.60 | 52.33 | 54.00 | -1.67 | Average | 100 | 360 | P |
| 6 | 4824.00 | 4.73 | 51.35 | 56.08 | 74.00 | -17.92 | Peak | 100 | 360 | P |
| 7 | 12060.00 | 14.70 | 29.01 | 43.71 | 54.00 | -10.29 | Average | 100 | 333 | P |
| 8 | 12060.00 | 14.70 | 41.91 | 56.61 | 74.00 | -17.39 | Peak | 100 | 333 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH06 | | : |

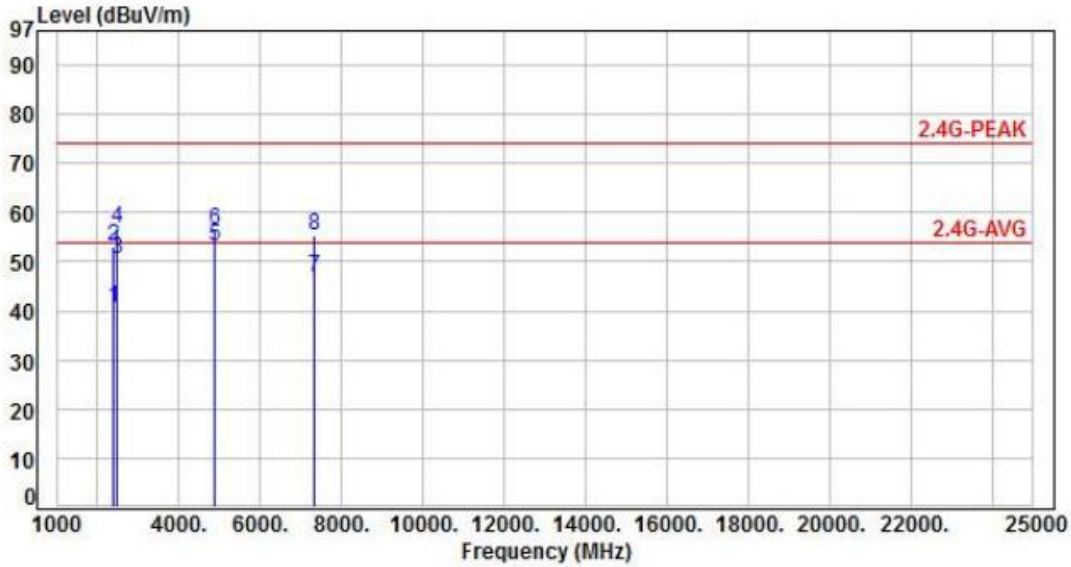


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 47.54 | 44.65 | 54.00 | -9.35 | Average | 100 | 303 | P |
| 2 | 2390.00 | -2.89 | 57.30 | 54.41 | 74.00 | -19.59 | Peak | 100 | 303 | P |
| 3 | 2483.50 | -2.66 | 46.94 | 44.28 | 54.00 | -9.72 | Average | 100 | 215 | P |
| 4 | 2483.50 | -2.66 | 57.51 | 54.85 | 74.00 | -19.15 | Peak | 100 | 215 | P |
| 5 | 4874.00 | 4.89 | 46.86 | 51.75 | 54.00 | -2.25 | Average | 264 | 71 | P |
| 6 | 4874.00 | 4.89 | 50.51 | 55.40 | 74.00 | -18.60 | Peak | 264 | 71 | P |
| 7 | 7311.00 | 9.81 | 35.41 | 45.22 | 54.00 | -8.78 | Average | 226 | 121 | P |
| 8 | 7311.00 | 9.81 | 43.86 | 53.67 | 74.00 | -20.33 | Peak | 226 | 121 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH06 | | : |

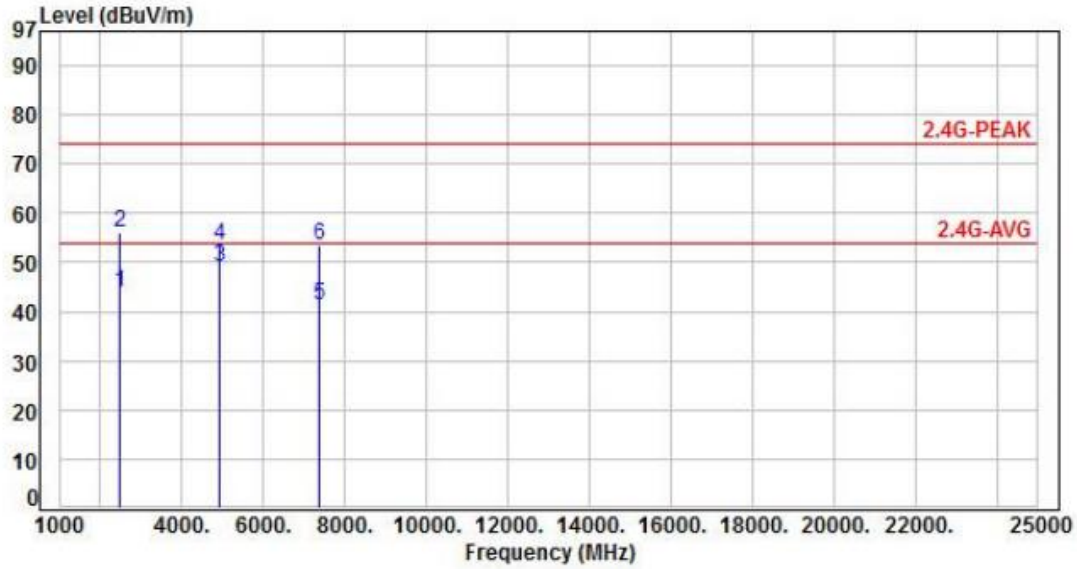


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 43.56 | 40.67 | 54.00 | -13.33 | Average | 100 | 288 | P |
| 2 | 2390.00 | -2.89 | 55.90 | 53.01 | 74.00 | -20.99 | Peak | 100 | 288 | P |
| 3 | 2483.50 | -2.66 | 53.16 | 50.50 | 54.00 | -3.50 | Average | 100 | 100 | P |
| 4 | 2483.50 | -2.66 | 59.64 | 56.98 | 74.00 | -17.02 | Peak | 100 | 100 | P |
| 5 | 4874.00 | 4.89 | 48.10 | 52.99 | 54.00 | -1.01 | Average | 202 | 107 | P |
| 6 | 4874.00 | 4.89 | 51.43 | 56.32 | 74.00 | -17.68 | Peak | 202 | 107 | P |
| 7 | 7311.00 | 9.81 | 36.91 | 46.72 | 54.00 | -7.28 | Average | 120 | 40 | P |
| 8 | 7311.00 | 9.81 | 45.48 | 55.29 | 74.00 | -18.71 | Peak | 120 | 40 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 1, CH11 | | : |

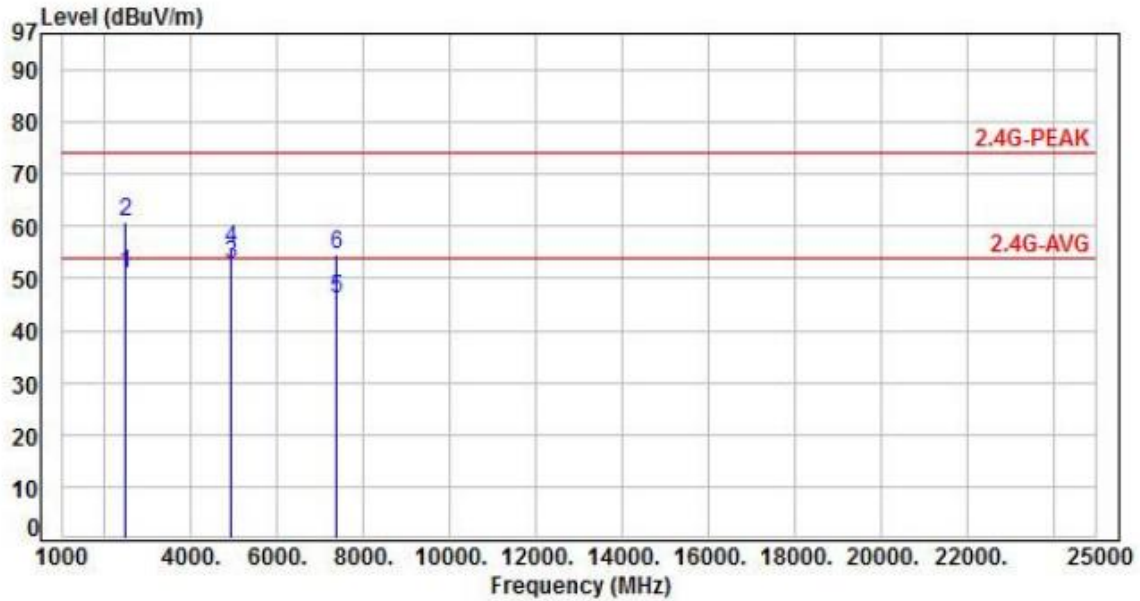


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 46.67 | 44.01 | 54.00 | -9.99 | Average | 120 | 230 | P |
| 2 | 2483.50 | -2.66 | 58.74 | 56.08 | 74.00 | -17.92 | Peak | 120 | 230 | P |
| 3 | 4924.00 | 5.10 | 44.01 | 49.11 | 54.00 | -4.89 | Average | 139 | 137 | P |
| 4 | 4924.00 | 5.10 | 48.32 | 53.42 | 74.00 | -20.58 | Peak | 139 | 137 | P |
| 5 | 7386.00 | 9.94 | 31.53 | 41.47 | 54.00 | -12.53 | Average | 227 | 124 | P |
| 6 | 7386.00 | 9.94 | 43.42 | 53.36 | 74.00 | -20.64 | Peak | 227 | 124 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 1, CH11 | | : |

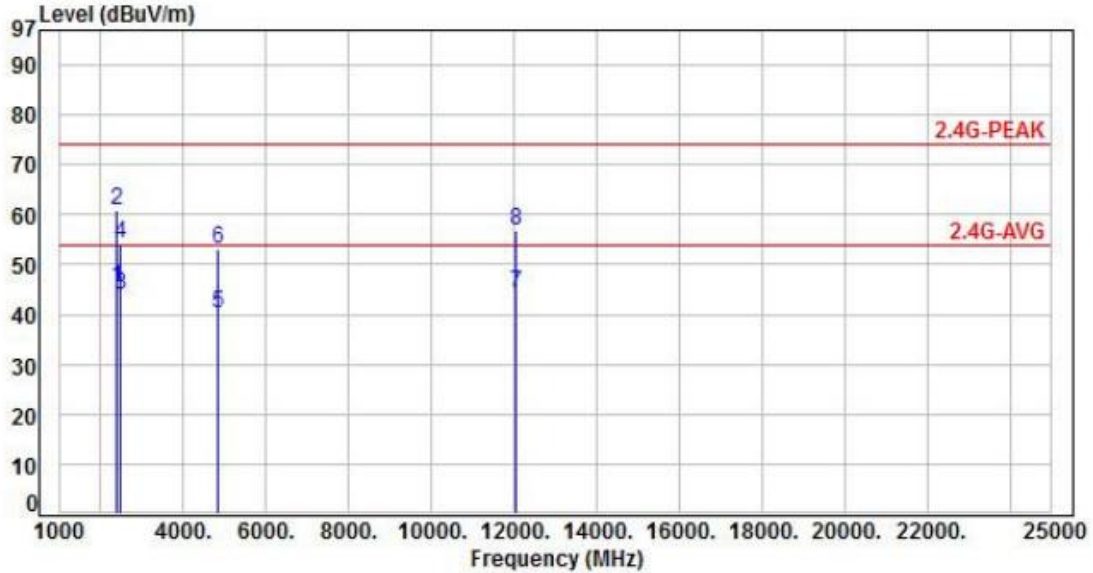


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 53.44 | 50.78 | 54.00 | -3.22 | Average | 100 | 115 | P |
| 2 | 2483.50 | -2.66 | 63.46 | 60.80 | 74.00 | -13.20 | Peak | 100 | 115 | P |
| 3 | 4924.00 | 5.10 | 47.62 | 52.72 | 54.00 | -1.28 | Average | 114 | 99 | P |
| 4 | 4924.00 | 5.10 | 50.53 | 55.63 | 74.00 | -18.37 | Peak | 114 | 99 | P |
| 5 | 7386.00 | 9.94 | 36.24 | 46.18 | 54.00 | -7.82 | Average | 164 | 50 | P |
| 6 | 7386.00 | 9.94 | 44.60 | 54.54 | 74.00 | -19.46 | Peak | 164 | 50 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH01 | | : |

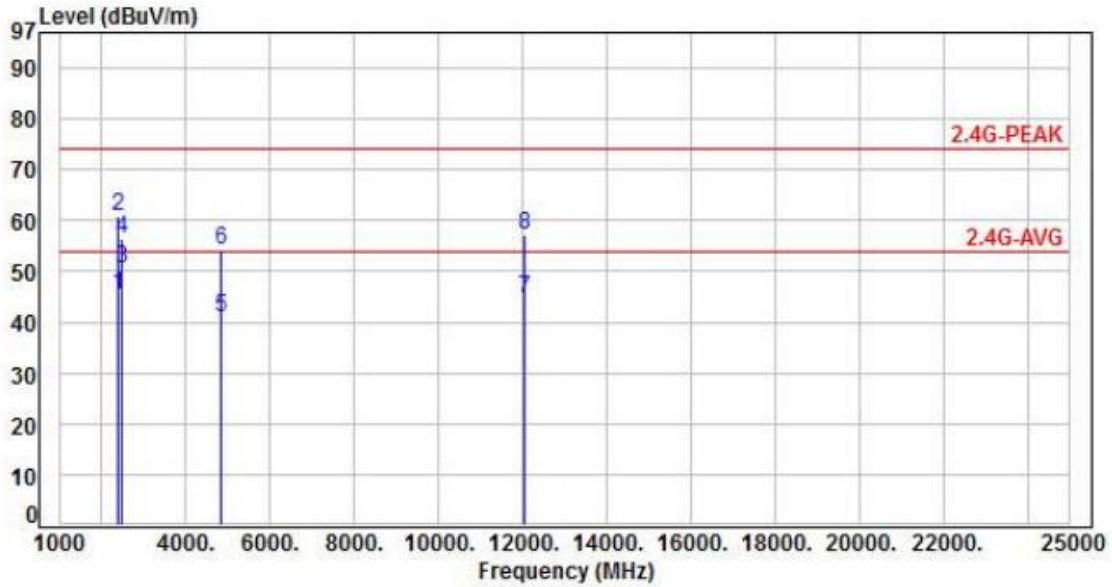


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 48.16 | 45.27 | 54.00 | -8.73 | Average | 220 | 336 | P |
| 2 | 2390.00 | -2.89 | 63.57 | 60.68 | 74.00 | -13.32 | Peak | 220 | 336 | P |
| 3 | 2483.50 | -2.66 | 46.72 | 44.06 | 54.00 | -9.94 | Average | 100 | 150 | P |
| 4 | 2483.50 | -2.66 | 56.89 | 54.23 | 74.00 | -19.77 | Peak | 100 | 150 | P |
| 5 | 4824.00 | 4.73 | 35.30 | 40.03 | 54.00 | -13.97 | Average | 260 | 95 | P |
| 6 | 4824.00 | 4.73 | 48.54 | 53.27 | 74.00 | -20.73 | Peak | 260 | 95 | P |
| 7 | 12060.00 | 14.70 | 29.48 | 44.18 | 54.00 | -9.82 | Average | 143 | 79 | P |
| 8 | 12060.00 | 14.70 | 42.21 | 56.91 | 74.00 | -17.09 | Peak | 143 | 79 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH01 | | : |

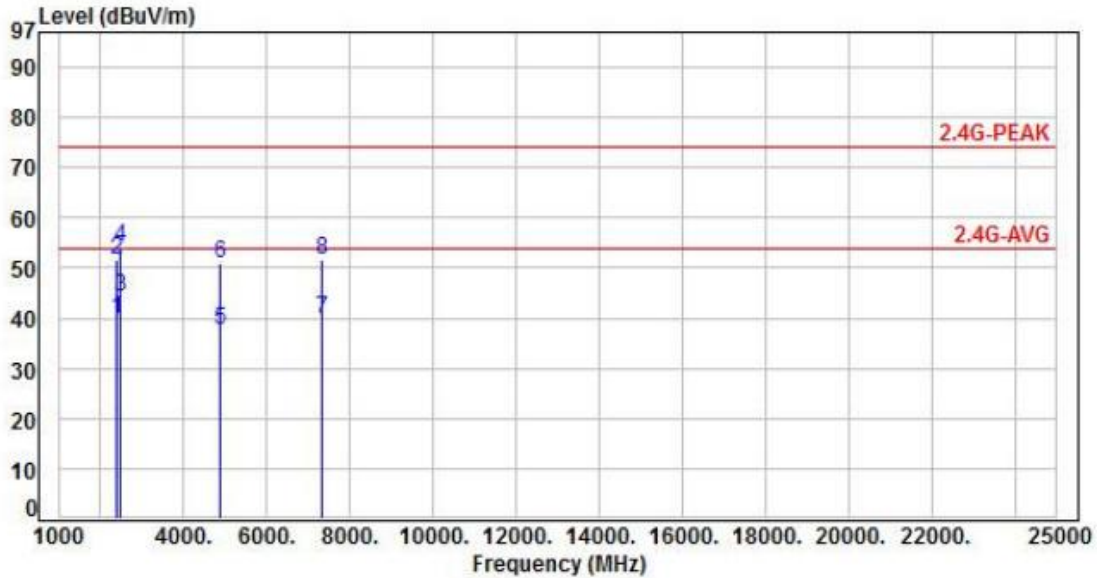


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 48.39 | 45.50 | 54.00 | -8.50 | Average | 112 | 97 | P |
| 2 | 2390.00 | -2.89 | 63.61 | 60.72 | 74.00 | -13.28 | Peak | 112 | 97 | P |
| 3 | 2483.50 | -2.66 | 53.19 | 50.53 | 54.00 | -3.47 | Average | 100 | 332 | P |
| 4 | 2483.50 | -2.66 | 59.22 | 56.56 | 74.00 | -17.44 | Peak | 100 | 332 | P |
| 5 | 4824.00 | 4.73 | 36.34 | 41.07 | 54.00 | -12.93 | Average | 181 | 153 | P |
| 6 | 4824.00 | 4.73 | 49.44 | 54.17 | 74.00 | -19.83 | Peak | 181 | 153 | P |
| 7 | 12060.00 | 14.70 | 29.78 | 44.48 | 54.00 | -9.52 | Average | 106 | 328 | P |
| 8 | 12060.00 | 14.70 | 42.35 | 57.05 | 74.00 | -16.95 | Peak | 106 | 328 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH06 | | : |

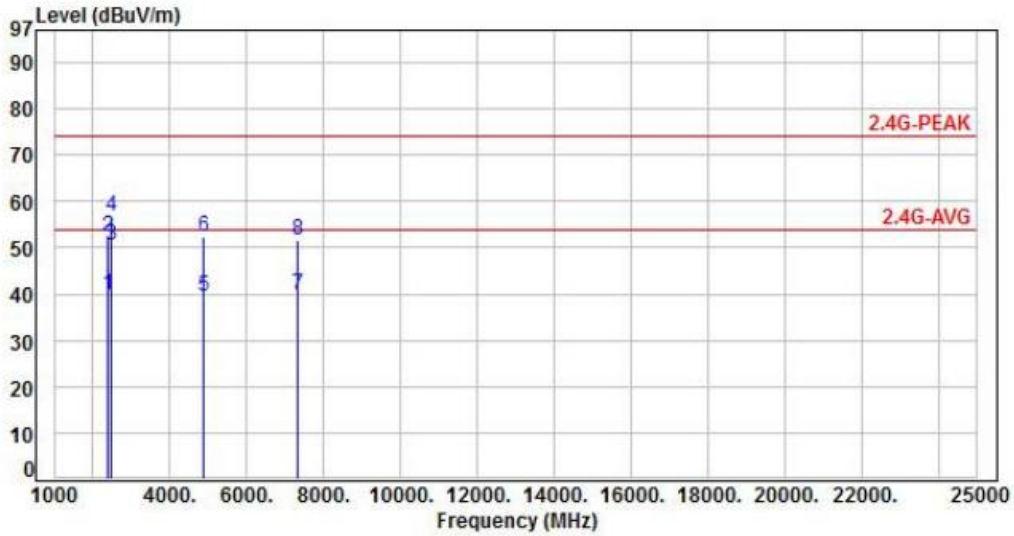


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 42.54 | 39.65 | 54.00 | -14.35 | Average | 100 | 173 | P |
| 2 | 2390.00 | -2.89 | 54.45 | 51.56 | 74.00 | -22.44 | Peak | 100 | 173 | P |
| 3 | 2483.50 | -2.66 | 47.07 | 44.41 | 54.00 | -9.59 | Average | 100 | 200 | P |
| 4 | 2483.50 | -2.66 | 57.03 | 54.37 | 74.00 | -19.63 | Peak | 100 | 200 | P |
| 5 | 4874.00 | 4.89 | 32.90 | 37.79 | 54.00 | -16.21 | Average | 100 | 15 | P |
| 6 | 4874.00 | 4.89 | 46.06 | 50.95 | 74.00 | -23.05 | Peak | 100 | 15 | P |
| 7 | 7311.00 | 9.81 | 30.00 | 39.81 | 54.00 | -14.19 | Average | 100 | 100 | P |
| 8 | 7311.00 | 9.81 | 41.67 | 51.48 | 74.00 | -22.52 | Peak | 100 | 100 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH06 | | : |

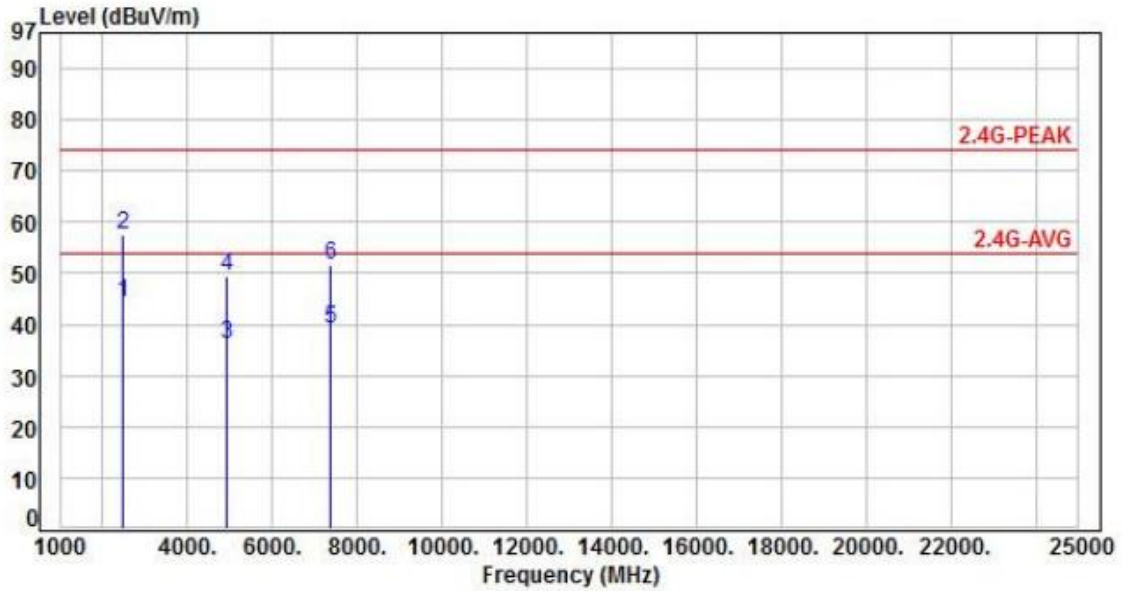


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 42.82 | 39.93 | 54.00 | -14.07 | Average | 100 | 30 | P |
| 2 | 2390.00 | -2.89 | 55.30 | 52.41 | 74.00 | -21.59 | Peak | 100 | 30 | P |
| 3 | 2483.50 | -2.66 | 53.12 | 50.46 | 54.00 | -3.54 | Average | 100 | 118 | P |
| 4 | 2483.50 | -2.66 | 59.54 | 56.88 | 74.00 | -17.12 | Peak | 100 | 118 | P |
| 5 | 4874.00 | 4.89 | 34.58 | 39.47 | 54.00 | -14.53 | Average | 100 | 120 | P |
| 6 | 4874.00 | 4.89 | 47.32 | 52.21 | 74.00 | -21.79 | Peak | 100 | 120 | P |
| 7 | 7311.00 | 9.81 | 30.16 | 39.97 | 54.00 | -14.03 | Average | 100 | 250 | P |
| 8 | 7311.00 | 9.81 | 41.84 | 51.65 | 74.00 | -22.35 | Peak | 100 | 250 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 2, CH11 | | : |

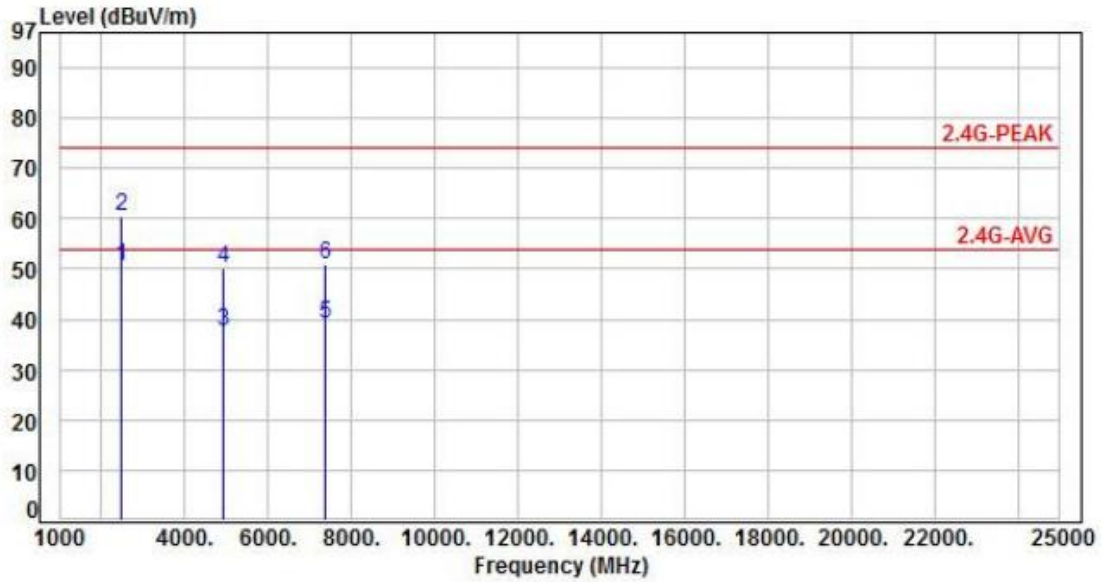


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 46.76 | 44.10 | 54.00 | -9.90 | Average | 100 | 260 | P |
| 2 | 2483.50 | -2.66 | 60.31 | 57.65 | 74.00 | -16.35 | Peak | 100 | 260 | P |
| 3 | 4924.00 | 5.10 | 31.14 | 36.24 | 54.00 | -17.76 | Average | 130 | 145 | P |
| 4 | 4924.00 | 5.10 | 44.31 | 49.41 | 74.00 | -24.59 | Peak | 130 | 145 | P |
| 5 | 7386.00 | 9.94 | 29.06 | 39.00 | 54.00 | -15.00 | Average | 100 | 115 | P |
| 6 | 7386.00 | 9.94 | 41.66 | 51.60 | 74.00 | -22.40 | Peak | 100 | 115 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 2, CH11 | | : |

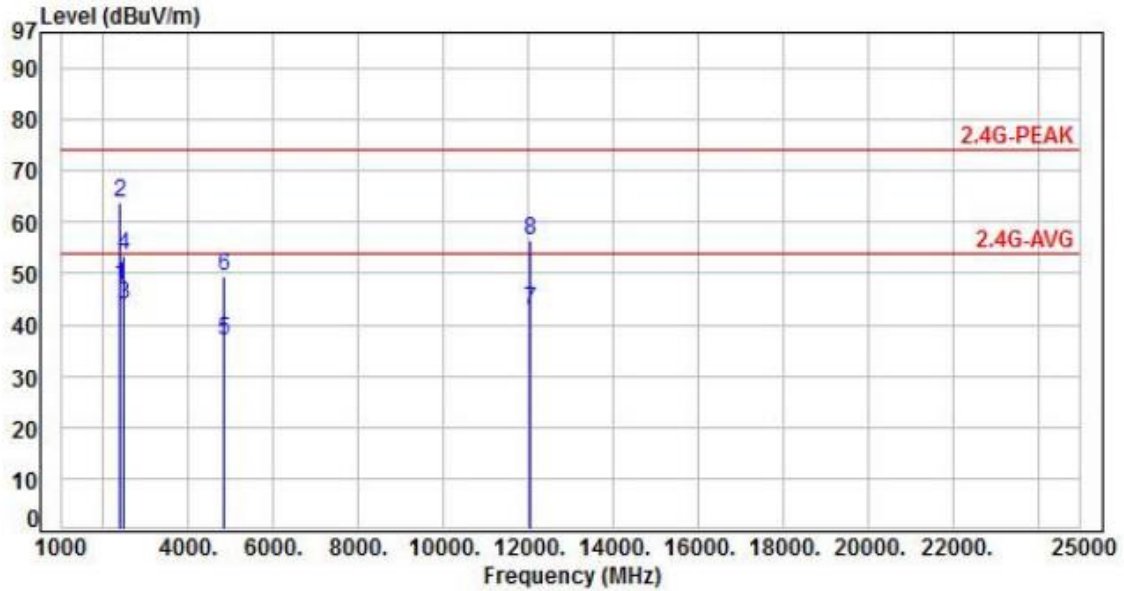


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 53.19 | 50.53 | 54.00 | -3.47 | Average | 100 | 121 | P |
| 2 | 2483.50 | -2.66 | 63.11 | 60.45 | 74.00 | -13.55 | Peak | 100 | 121 | P |
| 3 | 4924.00 | 5.10 | 32.42 | 37.52 | 54.00 | -16.48 | Average | 190 | 100 | P |
| 4 | 4924.00 | 5.10 | 45.15 | 50.25 | 74.00 | -23.75 | Peak | 190 | 100 | P |
| 5 | 7386.00 | 9.94 | 29.24 | 39.18 | 54.00 | -14.82 | Average | 100 | 275 | P |
| 6 | 7386.00 | 9.94 | 40.97 | 50.91 | 74.00 | -23.09 | Peak | 100 | 275 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH01 | | : |

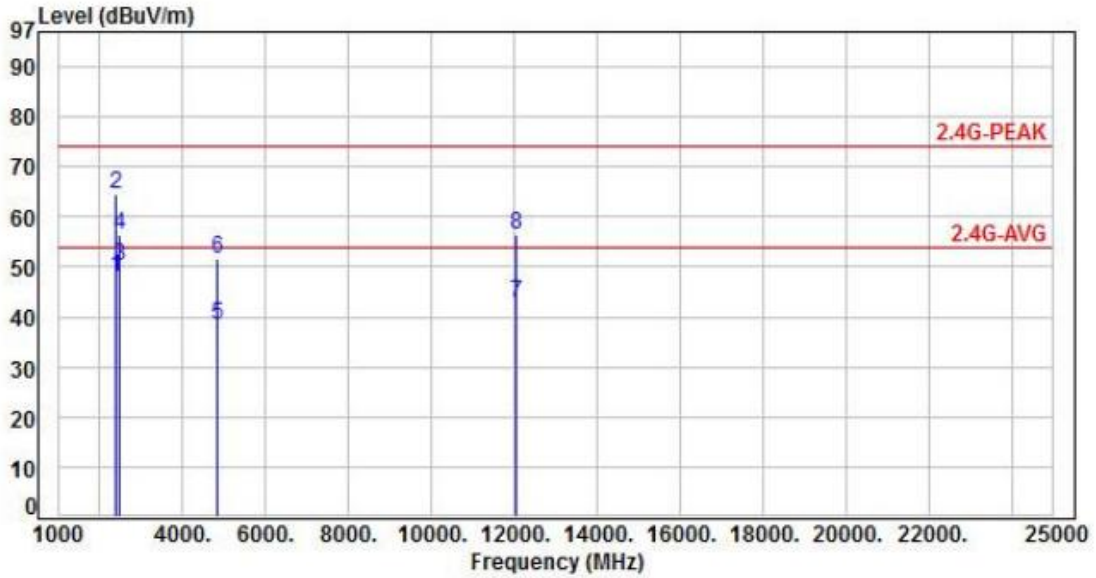


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 50.47 | 47.58 | 54.00 | -6.42 | Average | 240 | 120 | P |
| 2 | 2390.00 | -2.89 | 66.82 | 63.93 | 74.00 | -10.07 | Peak | 240 | 120 | P |
| 3 | 2483.50 | -2.66 | 46.44 | 43.78 | 54.00 | -10.22 | Average | 100 | 240 | P |
| 4 | 2483.50 | -2.66 | 56.32 | 53.66 | 74.00 | -20.34 | Peak | 100 | 240 | P |
| 5 | 4824.00 | 4.73 | 32.25 | 36.98 | 54.00 | -17.02 | Average | 100 | 73 | P |
| 6 | 4824.00 | 4.73 | 44.85 | 49.58 | 74.00 | -24.42 | Peak | 100 | 73 | P |
| 7 | 12060.00 | 14.70 | 27.91 | 42.61 | 54.00 | -11.39 | Average | 100 | 337 | P |
| 8 | 12060.00 | 14.70 | 41.90 | 56.60 | 74.00 | -17.40 | Peak | 100 | 337 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH01 | | : |

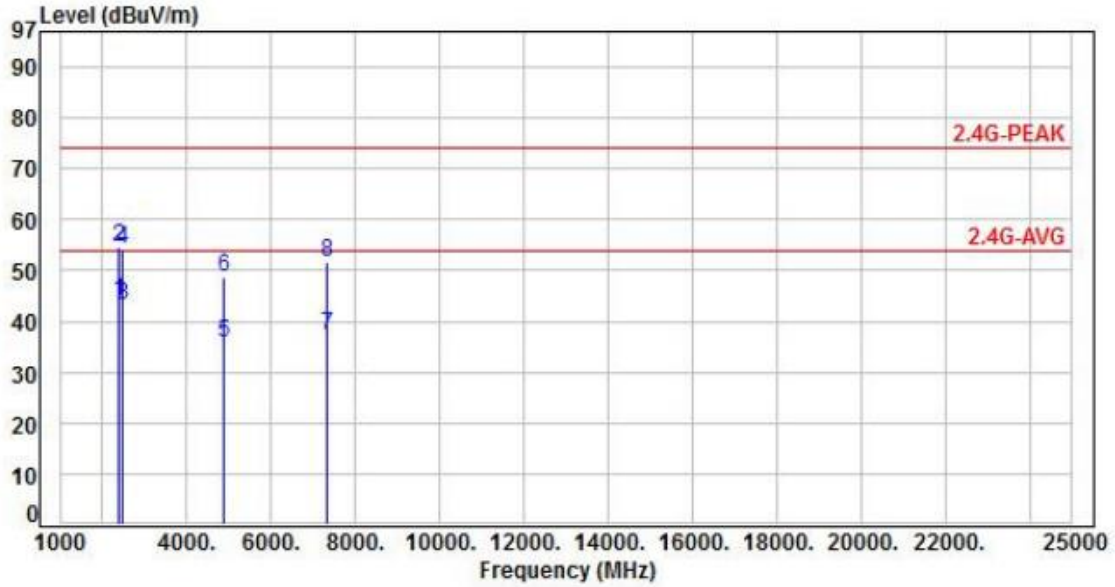


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 50.84 | 47.95 | 54.00 | -6.05 | Average | 230 | 90 | P |
| 2 | 2390.00 | -2.89 | 67.36 | 64.47 | 74.00 | -9.53 | Peak | 230 | 90 | P |
| 3 | 2483.50 | -2.66 | 52.72 | 50.06 | 54.00 | -3.94 | Average | 100 | 107 | P |
| 4 | 2483.50 | -2.66 | 59.24 | 56.58 | 74.00 | -17.42 | Peak | 100 | 107 | P |
| 5 | 4824.00 | 4.73 | 33.67 | 38.40 | 54.00 | -15.60 | Average | 150 | 150 | P |
| 6 | 4824.00 | 4.73 | 46.78 | 51.51 | 74.00 | -22.49 | Peak | 150 | 150 | P |
| 7 | 12060.00 | 14.70 | 28.13 | 42.83 | 54.00 | -11.17 | Average | 100 | 250 | P |
| 8 | 12060.00 | 14.70 | 41.90 | 56.60 | 74.00 | -17.40 | Peak | 100 | 250 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH06 | | : |

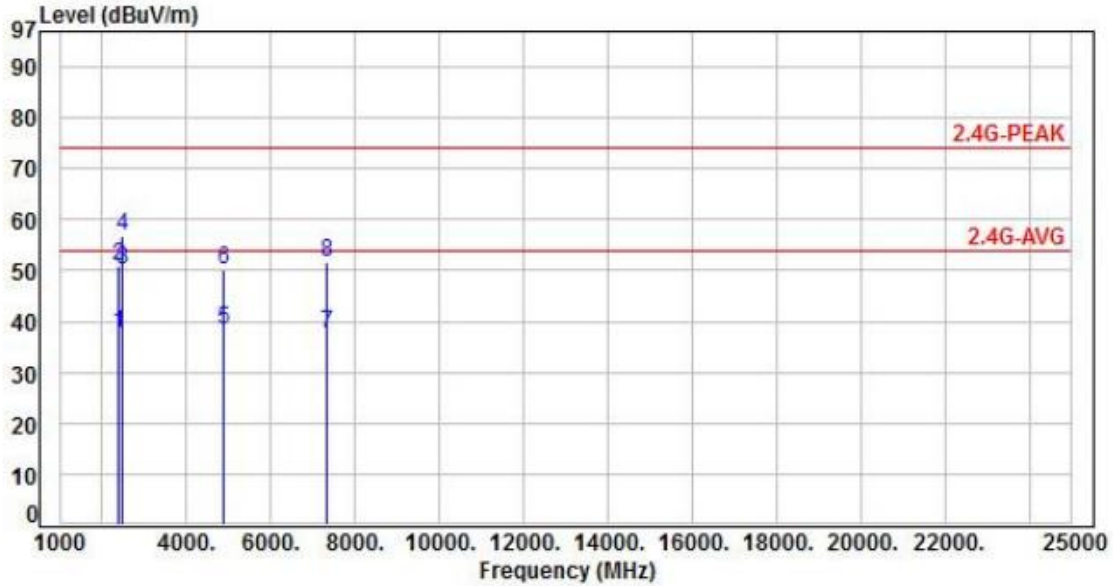


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 46.72 | 43.83 | 54.00 | -10.17 | Average | 165 | 285 | P |
| 2 | 2390.00 | -2.89 | 57.58 | 54.69 | 74.00 | -19.31 | Peak | 165 | 285 | P |
| 3 | 2483.50 | -2.66 | 45.86 | 43.20 | 54.00 | -10.80 | Average | 100 | 225 | P |
| 4 | 2483.50 | -2.66 | 56.86 | 54.20 | 74.00 | -19.80 | Peak | 100 | 225 | P |
| 5 | 4874.00 | 4.89 | 30.90 | 35.79 | 54.00 | -18.21 | Average | 100 | 50 | P |
| 6 | 4874.00 | 4.89 | 43.93 | 48.82 | 74.00 | -25.18 | Peak | 100 | 50 | P |
| 7 | 7311.00 | 9.81 | 27.45 | 37.26 | 54.00 | -16.74 | Average | 100 | 270 | P |
| 8 | 7311.00 | 9.81 | 41.84 | 51.65 | 74.00 | -22.35 | Peak | 100 | 270 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH06 | | : |

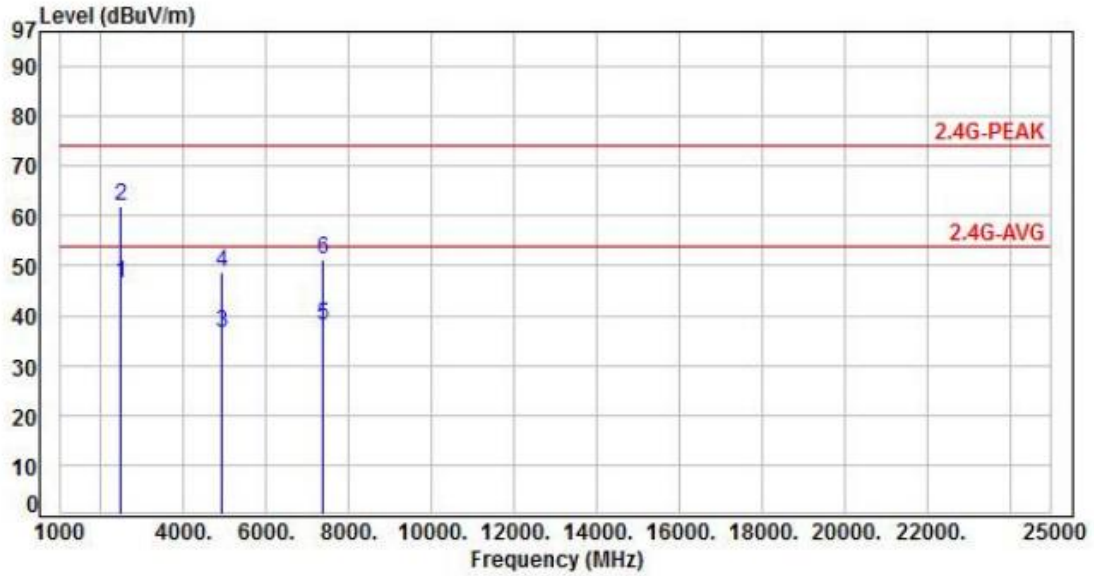


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 40.47 | 37.58 | 54.00 | -16.42 | Average | 100 | 122 | P |
| 2 | 2390.00 | -2.89 | 53.66 | 50.77 | 74.00 | -23.23 | Peak | 100 | 122 | P |
| 3 | 2483.50 | -2.66 | 52.86 | 50.20 | 54.00 | -3.80 | Average | 100 | 97 | P |
| 4 | 2483.50 | -2.66 | 59.30 | 56.64 | 74.00 | -17.36 | Peak | 100 | 97 | P |
| 5 | 4874.00 | 4.89 | 33.29 | 38.18 | 54.00 | -15.82 | Average | 190 | 140 | P |
| 6 | 4874.00 | 4.89 | 45.37 | 50.26 | 74.00 | -23.74 | Peak | 190 | 140 | P |
| 7 | 7311.00 | 9.81 | 27.73 | 37.54 | 54.00 | -16.46 | Average | 100 | 45 | P |
| 8 | 7311.00 | 9.81 | 41.86 | 51.67 | 74.00 | -22.33 | Peak | 100 | 45 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 3, CH11 | | : |

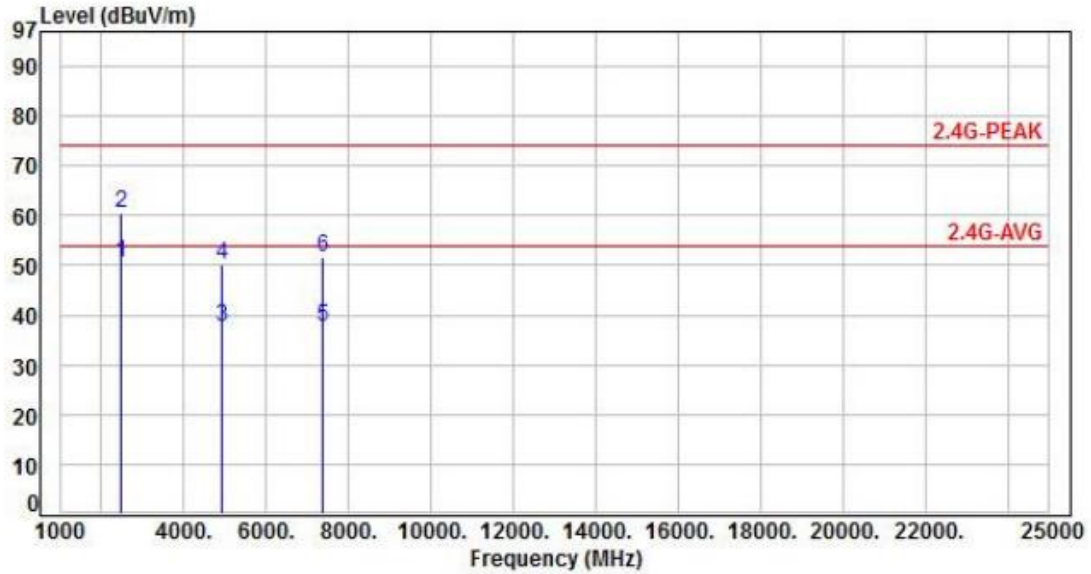


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 49.02 | 46.36 | 54.00 | -7.64 | Average | 150 | 220 | P |
| 2 | 2483.50 | -2.66 | 64.63 | 61.97 | 74.00 | -12.03 | Peak | 150 | 220 | P |
| 3 | 4924.00 | 5.10 | 31.32 | 36.42 | 54.00 | -17.58 | Average | 100 | 58 | P |
| 4 | 4924.00 | 5.10 | 43.63 | 48.73 | 74.00 | -25.27 | Peak | 100 | 58 | P |
| 5 | 7386.00 | 9.94 | 27.89 | 37.83 | 54.00 | -16.17 | Average | 100 | 288 | P |
| 6 | 7386.00 | 9.94 | 41.22 | 51.16 | 74.00 | -22.84 | Peak | 100 | 288 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 3, CH11 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 53.35 | 50.69 | 54.00 | -3.31 | Average | 185 | 110 | P |
| 2 | 2483.50 | -2.66 | 62.99 | 60.33 | 74.00 | -13.67 | Peak | 185 | 110 | P |
| 3 | 4924.00 | 5.10 | 32.34 | 37.44 | 54.00 | -16.56 | Average | 185 | 130 | P |
| 4 | 4924.00 | 5.10 | 45.03 | 50.13 | 74.00 | -23.87 | Peak | 185 | 130 | P |
| 5 | 7386.00 | 9.94 | 27.85 | 37.79 | 54.00 | -16.21 | Average | 100 | 56 | P |
| 6 | 7386.00 | 9.94 | 41.70 | 51.64 | 74.00 | -22.36 | Peak | 100 | 56 | P |

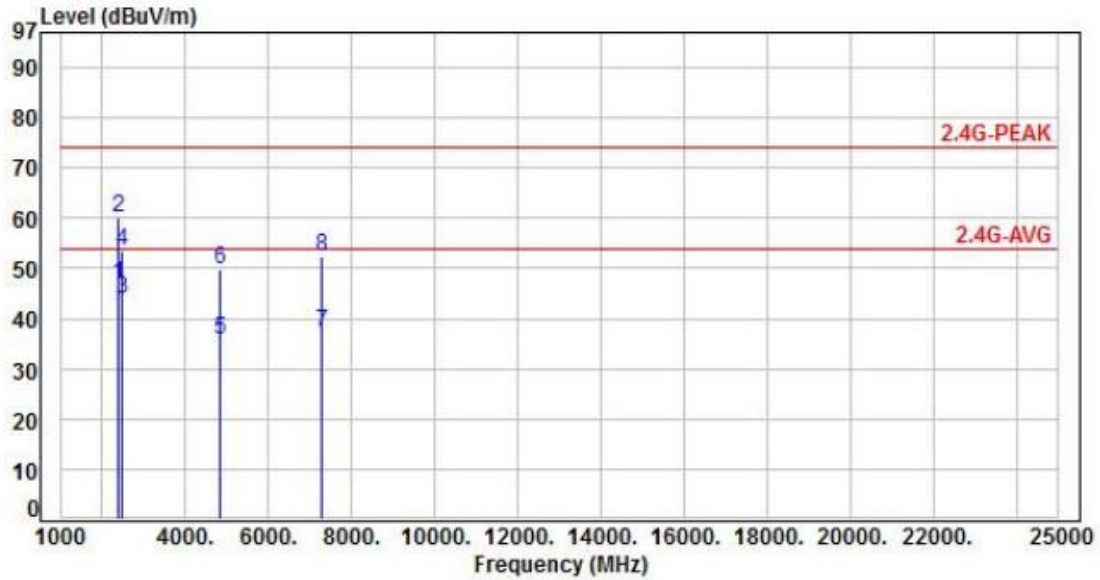
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH03 | | : |

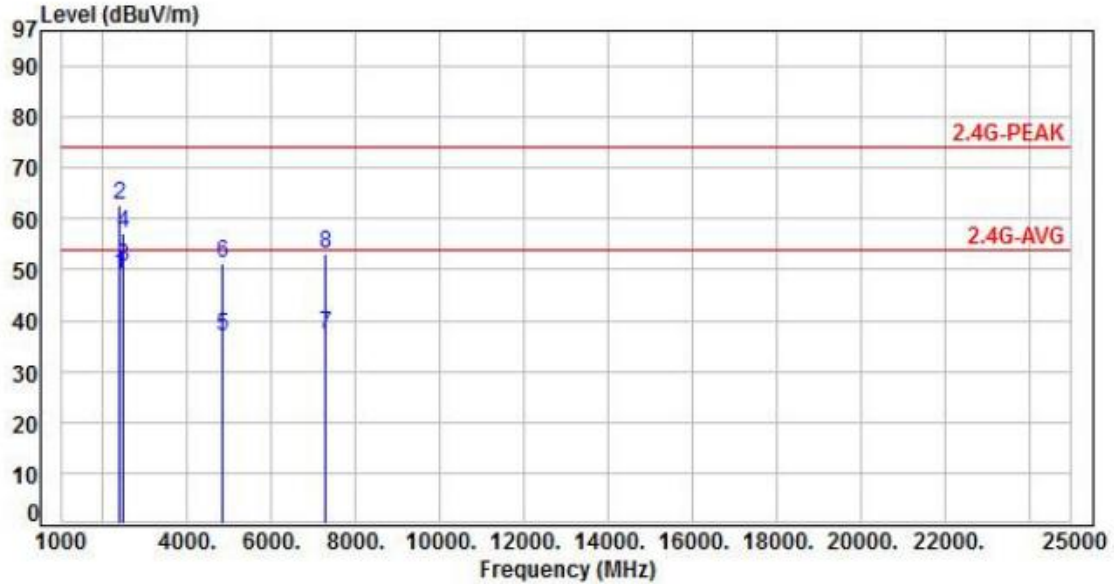


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 49.79 | 46.90 | 54.00 | -7.10 | Average | 195 | 0 | P |
| 2 | 2390.00 | -2.89 | 62.98 | 60.09 | 74.00 | -13.91 | Peak | 195 | 0 | P |
| 3 | 2483.50 | -2.66 | 46.46 | 43.80 | 54.00 | -10.20 | Average | 100 | 150 | P |
| 4 | 2483.50 | -2.66 | 56.12 | 53.46 | 74.00 | -20.54 | Peak | 100 | 150 | P |
| 5 | 4844.00 | 4.80 | 30.84 | 35.64 | 54.00 | -18.36 | Average | 250 | 75 | P |
| 6 | 4844.00 | 4.80 | 45.12 | 49.92 | 74.00 | -24.08 | Peak | 250 | 75 | P |
| 7 | 7266.00 | 9.63 | 27.58 | 37.21 | 54.00 | -16.79 | Average | 100 | 89 | P |
| 8 | 7266.00 | 9.63 | 42.68 | 52.31 | 74.00 | -21.69 | Peak | 100 | 89 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH03 | | : |

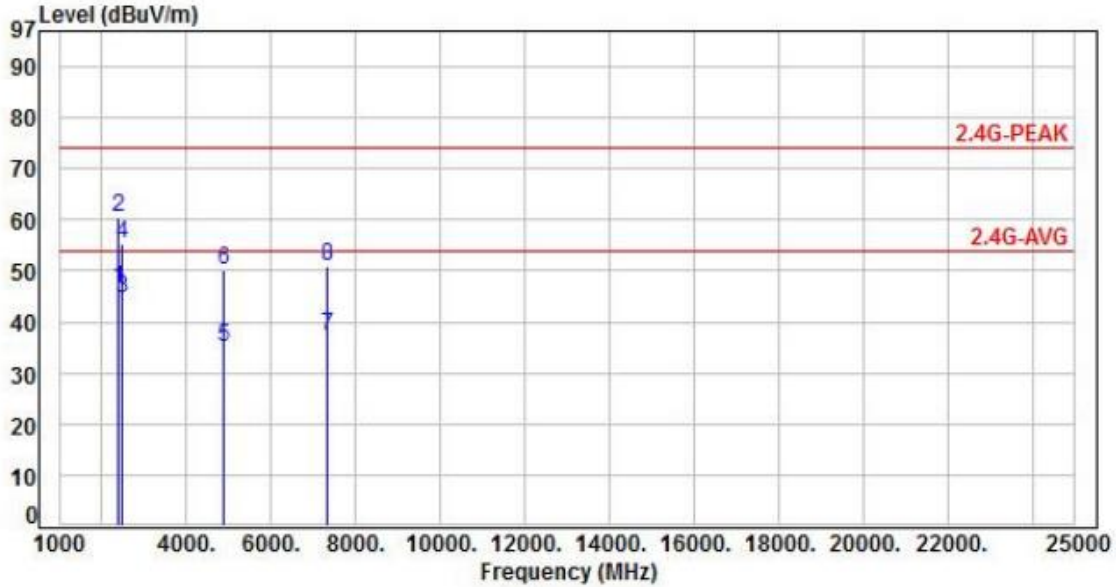


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 51.82 | 48.93 | 54.00 | -5.07 | Average | 185 | 90 | P |
| 2 | 2390.00 | -2.89 | 65.48 | 62.59 | 74.00 | -11.41 | Peak | 185 | 90 | P |
| 3 | 2483.50 | -2.66 | 53.26 | 50.60 | 54.00 | -3.40 | Average | 100 | 127 | P |
| 4 | 2483.50 | -2.66 | 59.87 | 57.21 | 74.00 | -16.79 | Peak | 100 | 127 | P |
| 5 | 4844.00 | 4.80 | 32.14 | 36.94 | 54.00 | -17.06 | Average | 100 | 200 | P |
| 6 | 4844.00 | 4.80 | 46.36 | 51.16 | 74.00 | -22.84 | Peak | 100 | 200 | P |
| 7 | 7266.00 | 9.63 | 27.54 | 37.17 | 54.00 | -16.83 | Average | 100 | 138 | P |
| 8 | 7266.00 | 9.63 | 43.35 | 52.98 | 74.00 | -21.02 | Peak | 100 | 138 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH06 | | : |

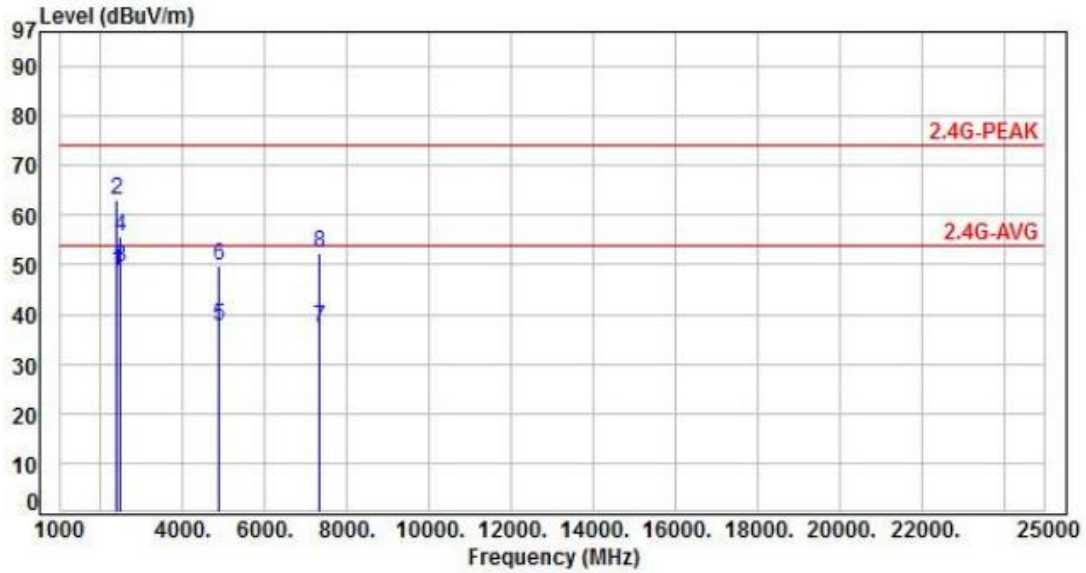


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 49.54 | 46.65 | 54.00 | -7.35 | Average | 200 | 0 | P |
| 2 | 2390.00 | -2.89 | 63.30 | 60.41 | 74.00 | -13.59 | Peak | 200 | 0 | P |
| 3 | 2483.50 | -2.66 | 47.14 | 44.48 | 54.00 | -9.52 | Average | 100 | 95 | P |
| 4 | 2483.50 | -2.66 | 58.00 | 55.34 | 74.00 | -18.66 | Peak | 100 | 95 | P |
| 5 | 4874.00 | 4.89 | 30.26 | 35.15 | 54.00 | -18.85 | Average | 100 | 20 | P |
| 6 | 4874.00 | 4.89 | 45.22 | 50.11 | 74.00 | -23.89 | Peak | 100 | 20 | P |
| 7 | 7311.00 | 9.81 | 27.36 | 37.17 | 54.00 | -16.83 | Average | 100 | 145 | P |
| 8 | 7311.00 | 9.81 | 41.20 | 51.01 | 74.00 | -22.99 | Peak | 100 | 145 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH06 | | : |

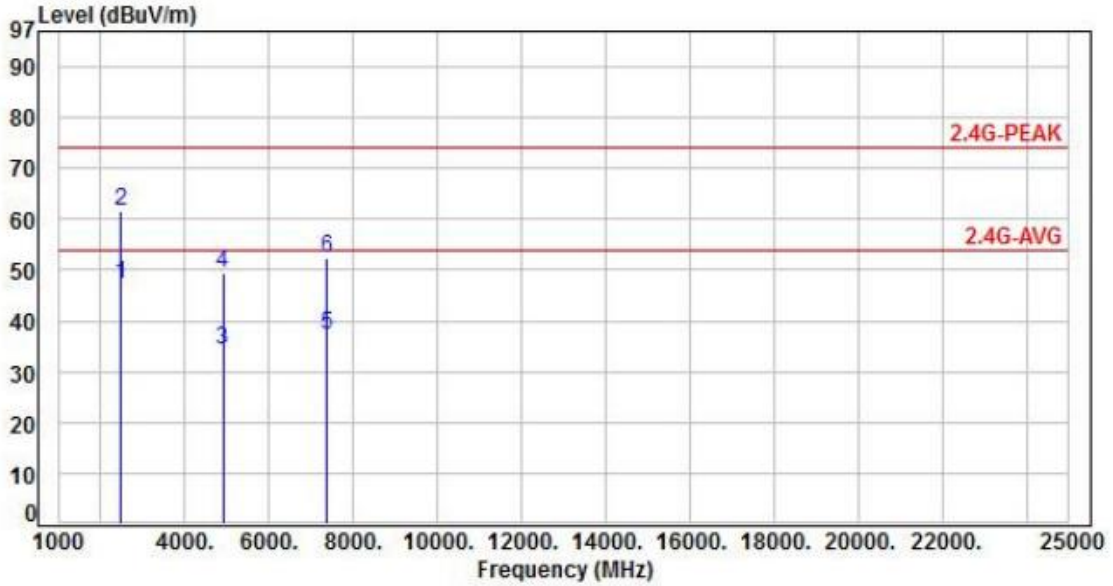


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 51.73 | 48.84 | 54.00 | -5.16 | Average | 160 | 100 | P |
| 2 | 2390.00 | -2.89 | 65.77 | 62.88 | 74.00 | -11.12 | Peak | 160 | 100 | P |
| 3 | 2483.50 | -2.66 | 51.94 | 49.28 | 54.00 | -4.72 | Average | 160 | 110 | P |
| 4 | 2483.50 | -2.66 | 58.37 | 55.71 | 74.00 | -18.29 | Peak | 160 | 110 | P |
| 5 | 4874.00 | 4.89 | 32.71 | 37.60 | 54.00 | -16.40 | Average | 100 | 204 | P |
| 6 | 4874.00 | 4.89 | 45.06 | 49.95 | 74.00 | -24.05 | Peak | 100 | 204 | P |
| 7 | 7311.00 | 9.81 | 27.58 | 37.39 | 54.00 | -16.61 | Average | 100 | 311 | P |
| 8 | 7311.00 | 9.81 | 42.66 | 52.47 | 74.00 | -21.53 | Peak | 100 | 311 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 4, CH09 | | : |

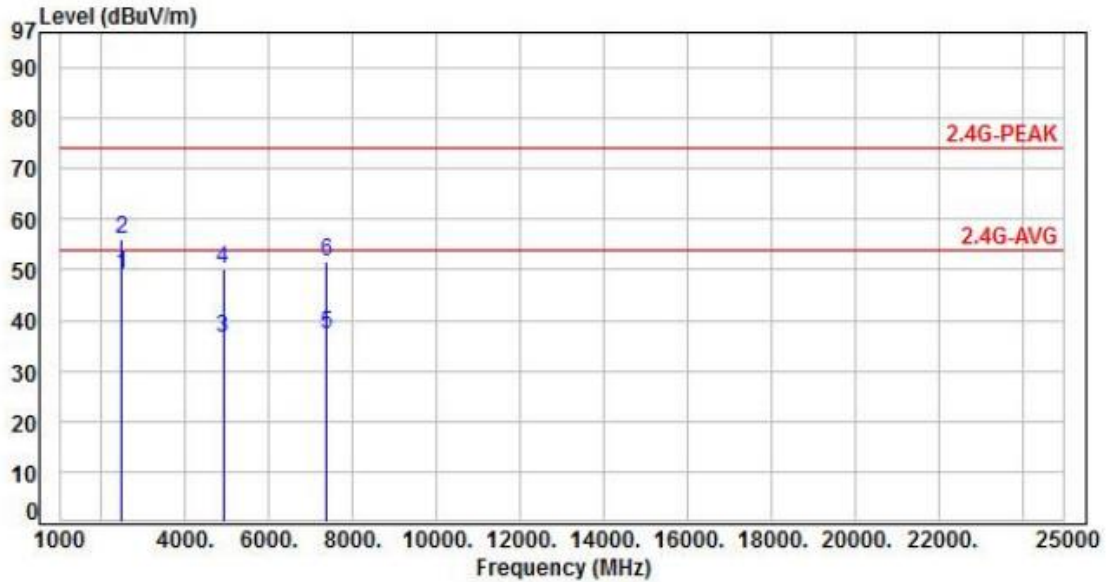


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 49.81 | 47.15 | 54.00 | -6.85 | Average | 400 | 95 | P |
| 2 | 2483.50 | -2.66 | 64.20 | 61.54 | 74.00 | -12.46 | Peak | 400 | 95 | P |
| 3 | 4904.00 | 4.99 | 29.45 | 34.44 | 54.00 | -19.56 | Average | 100 | 75 | P |
| 4 | 4904.00 | 4.99 | 44.31 | 49.30 | 74.00 | -24.70 | Peak | 100 | 75 | P |
| 5 | 7356.00 | 9.91 | 27.39 | 37.30 | 54.00 | -16.70 | Average | 100 | 125 | P |
| 6 | 7356.00 | 9.91 | 42.36 | 52.27 | 74.00 | -21.73 | Peak | 100 | 125 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 4, CH09 | | : |

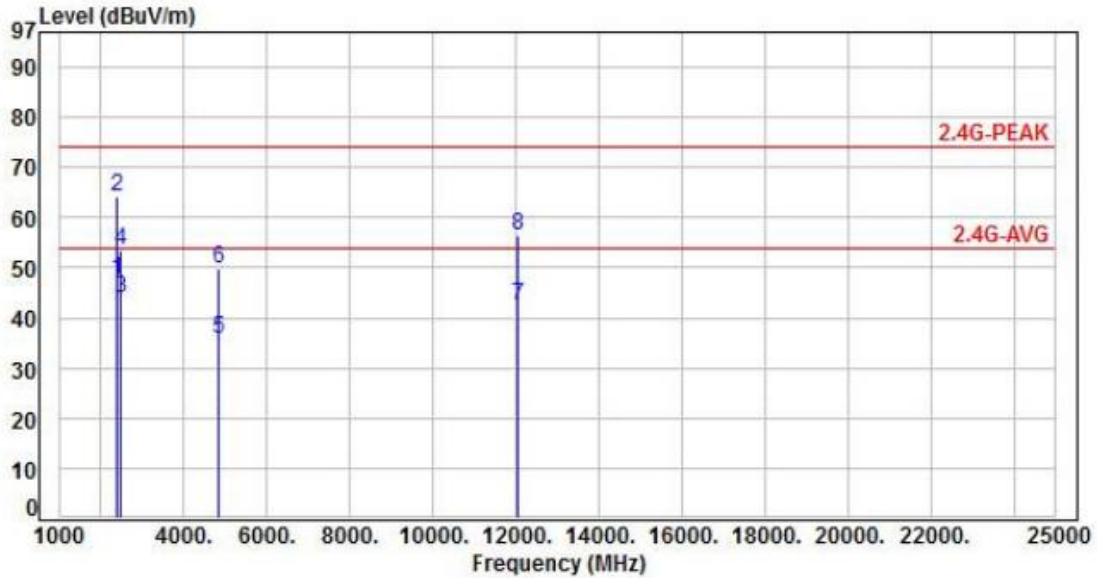


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 51.74 | 49.08 | 54.00 | -4.92 | Average | 160 | 115 | P |
| 2 | 2483.50 | -2.66 | 58.78 | 56.12 | 74.00 | -17.88 | Peak | 160 | 115 | P |
| 3 | 4904.00 | 4.99 | 31.43 | 36.42 | 54.00 | -17.58 | Average | 100 | 175 | P |
| 4 | 4904.00 | 4.99 | 45.28 | 50.27 | 74.00 | -23.73 | Peak | 100 | 175 | P |
| 5 | 7356.00 | 9.91 | 27.30 | 37.21 | 54.00 | -16.79 | Average | 130 | 305 | P |
| 6 | 7356.00 | 9.91 | 41.87 | 51.78 | 74.00 | -22.22 | Peak | 130 | 305 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH01 | | : |

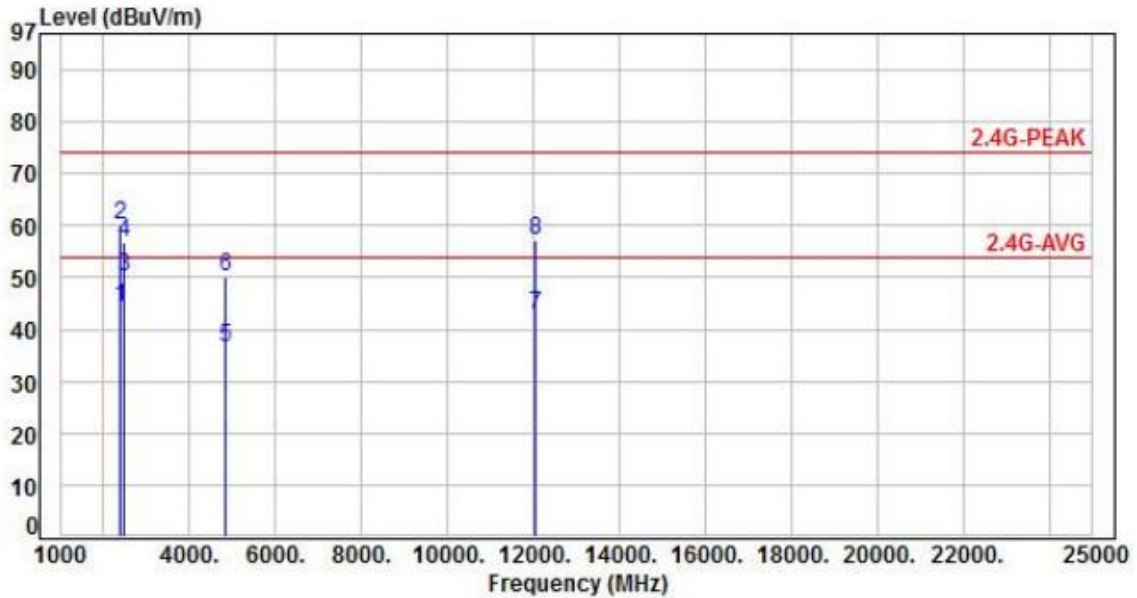


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 50.36 | 47.47 | 54.00 | -6.53 | Average | 125 | 310 | P |
| 2 | 2390.00 | -2.89 | 67.22 | 64.33 | 74.00 | -9.67 | Peak | 125 | 310 | P |
| 3 | 2483.50 | -2.66 | 46.61 | 43.95 | 54.00 | -10.05 | Average | 100 | 155 | P |
| 4 | 2483.50 | -2.66 | 56.25 | 53.59 | 74.00 | -20.41 | Peak | 100 | 155 | P |
| 5 | 4824.00 | 4.73 | 30.90 | 35.63 | 54.00 | -18.37 | Average | 265 | 50 | P |
| 6 | 4824.00 | 4.73 | 44.97 | 49.70 | 74.00 | -24.30 | Peak | 265 | 50 | P |
| 7 | 12060.00 | 14.70 | 27.84 | 42.54 | 54.00 | -11.46 | Average | 100 | 75 | P |
| 8 | 12060.00 | 14.70 | 41.82 | 56.52 | 74.00 | -17.48 | Peak | 100 | 75 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH01 | | : |

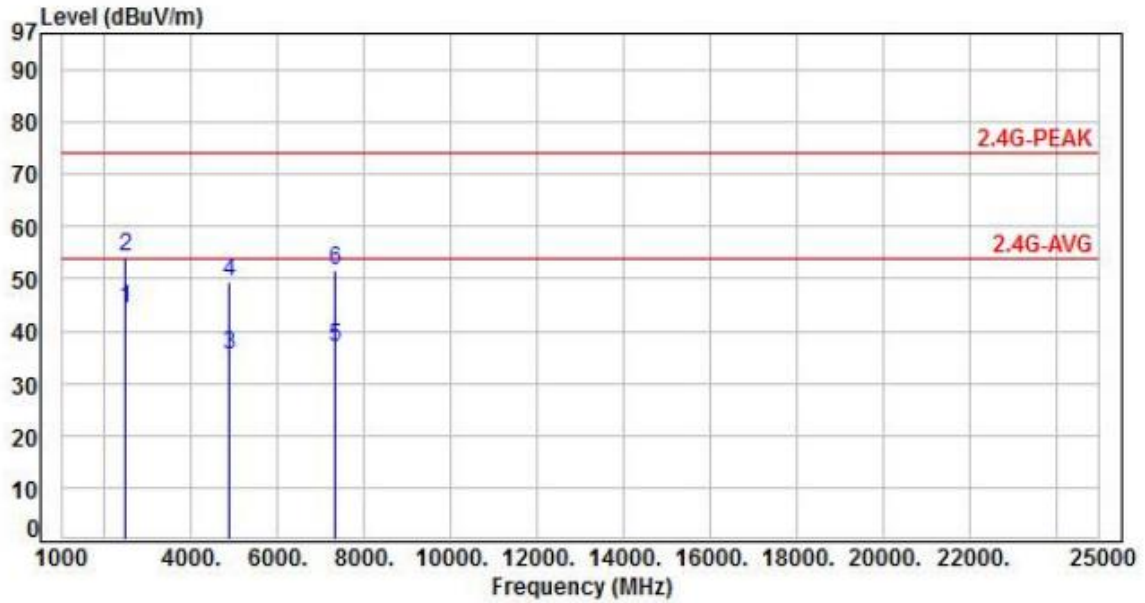


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 47.09 | 44.20 | 54.00 | -9.80 | Average | 100 | 335 | P |
| 2 | 2390.00 | -2.89 | 62.99 | 60.10 | 74.00 | -13.90 | Peak | 100 | 335 | P |
| 3 | 2483.50 | -2.66 | 52.92 | 50.26 | 54.00 | -3.74 | Average | 100 | 335 | P |
| 4 | 2483.50 | -2.66 | 59.51 | 56.85 | 74.00 | -17.15 | Peak | 100 | 335 | P |
| 5 | 4824.00 | 4.73 | 31.91 | 36.64 | 54.00 | -17.36 | Average | 100 | 100 | P |
| 6 | 4824.00 | 4.73 | 45.59 | 50.32 | 74.00 | -23.68 | Peak | 100 | 100 | P |
| 7 | 12060.00 | 14.70 | 27.91 | 42.61 | 54.00 | -11.39 | Average | 100 | 285 | P |
| 8 | 12060.00 | 14.70 | 42.37 | 57.07 | 74.00 | -16.93 | Peak | 100 | 285 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH06 | | : |

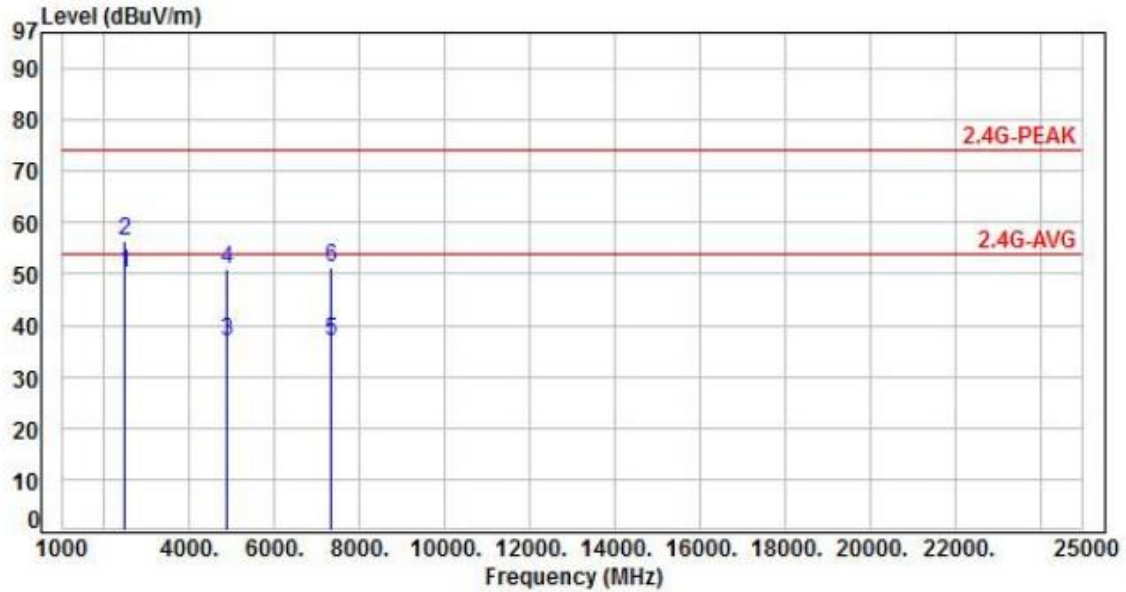


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 46.83 | 44.17 | 54.00 | -9.83 | Average | 100 | 220 | P |
| 2 | 2483.50 | -2.66 | 57.03 | 54.37 | 74.00 | -19.63 | Peak | 100 | 220 | P |
| 3 | 4874.00 | 4.89 | 30.36 | 35.25 | 54.00 | -18.75 | Average | 100 | 10 | P |
| 4 | 4874.00 | 4.89 | 44.70 | 49.59 | 74.00 | -24.41 | Peak | 100 | 10 | P |
| 5 | 7311.00 | 9.81 | 27.23 | 37.04 | 54.00 | -16.96 | Average | 100 | 55 | P |
| 6 | 7311.00 | 9.81 | 41.64 | 51.45 | 74.00 | -22.55 | Peak | 100 | 55 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH06 | | : |

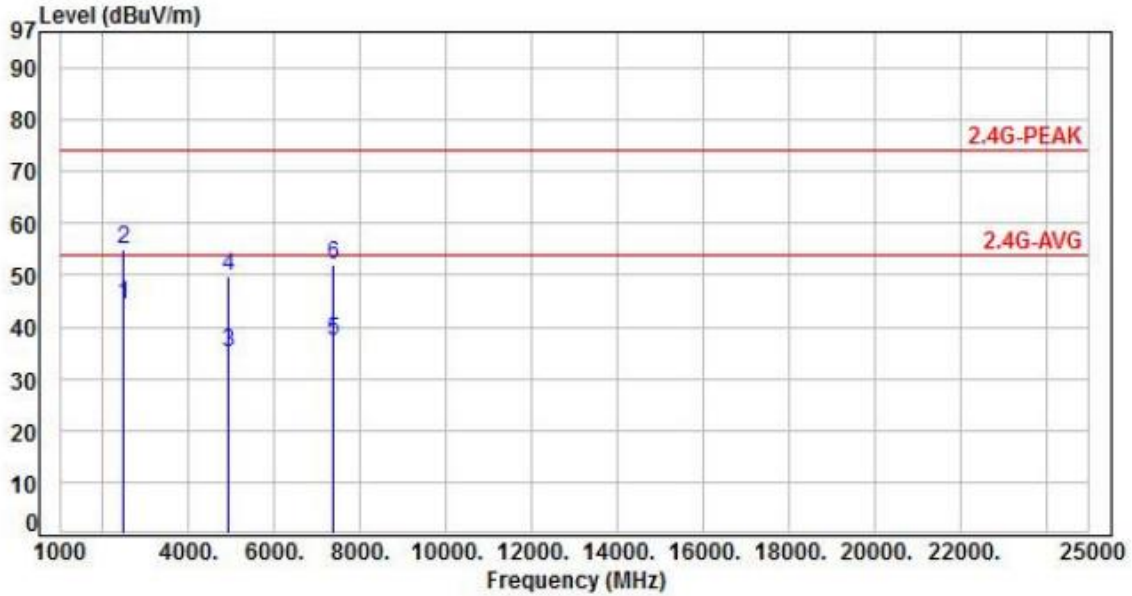


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 52.92 | 50.26 | 54.00 | -3.74 | Average | 180 | 110 | P |
| 2 | 2483.50 | -2.66 | 59.12 | 56.46 | 74.00 | -17.54 | Peak | 180 | 110 | P |
| 3 | 4874.00 | 4.89 | 32.02 | 36.91 | 54.00 | -17.09 | Average | 100 | 195 | P |
| 4 | 4874.00 | 4.89 | 45.99 | 50.88 | 74.00 | -23.12 | Peak | 100 | 195 | P |
| 5 | 7311.00 | 9.81 | 27.20 | 37.01 | 54.00 | -16.99 | Average | 100 | 300 | P |
| 6 | 7311.00 | 9.81 | 41.33 | 51.14 | 74.00 | -22.86 | Peak | 100 | 300 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 5, CH11 | | : |

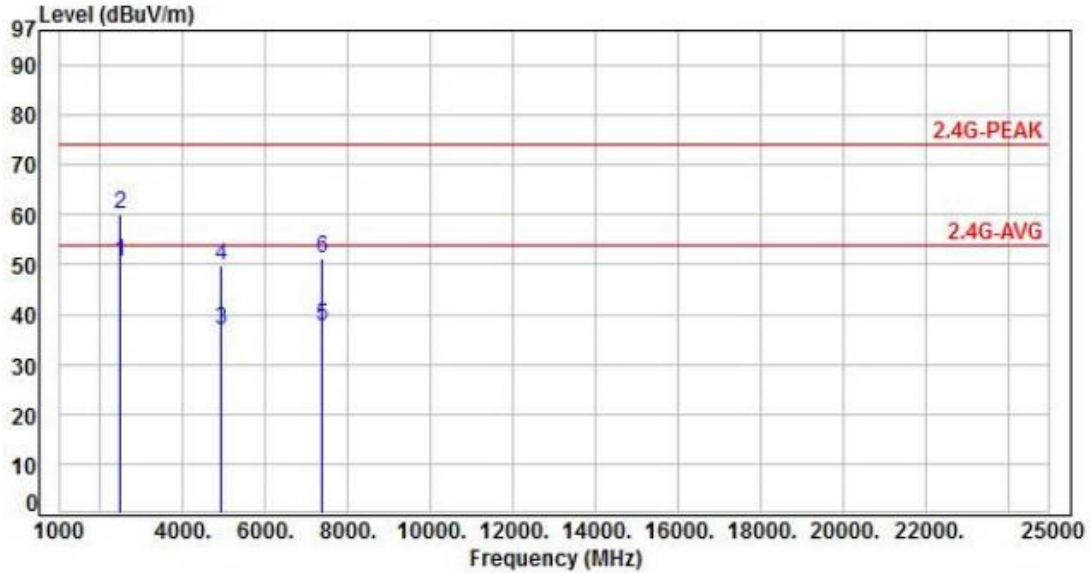


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 47.03 | 44.37 | 54.00 | -9.63 | Average | 100 | 230 | P |
| 2 | 2483.50 | -2.66 | 57.50 | 54.84 | 74.00 | -19.16 | Peak | 100 | 230 | P |
| 3 | 4924.00 | 5.10 | 29.95 | 35.05 | 54.00 | -18.95 | Average | 100 | 110 | P |
| 4 | 4924.00 | 5.10 | 44.78 | 49.88 | 74.00 | -24.12 | Peak | 100 | 110 | P |
| 5 | 7386.00 | 9.94 | 27.42 | 37.36 | 54.00 | -16.64 | Average | 100 | 255 | P |
| 6 | 7386.00 | 9.94 | 42.11 | 52.05 | 74.00 | -21.95 | Peak | 100 | 255 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 5, CH11 | | : |

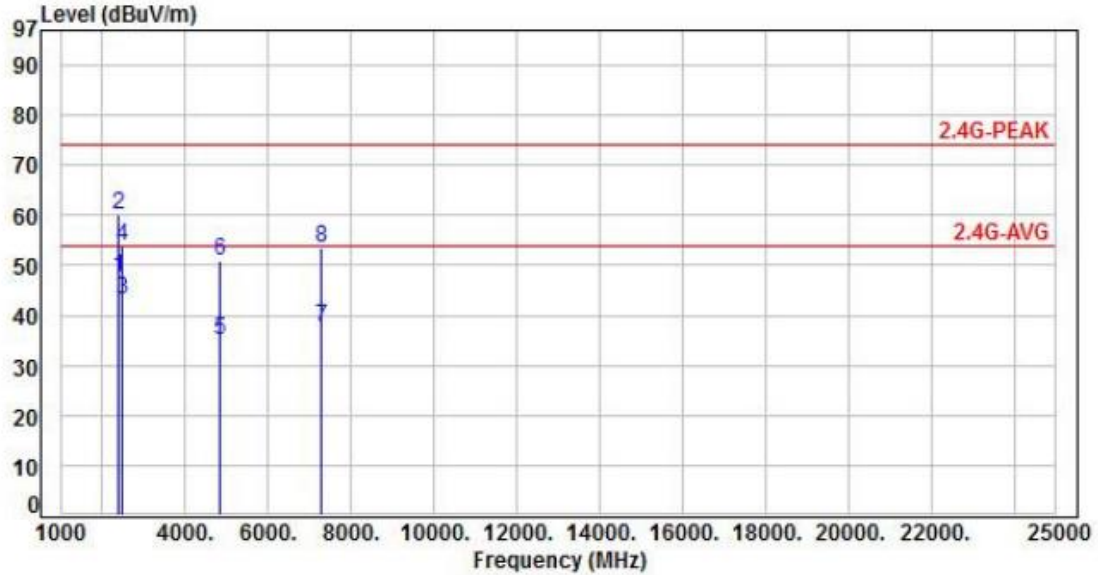


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 53.08 | 50.42 | 54.00 | -3.58 | Average | 180 | 110 | P |
| 2 | 2483.50 | -2.66 | 62.68 | 60.02 | 74.00 | -13.98 | Peak | 180 | 110 | P |
| 3 | 4924.00 | 5.10 | 31.60 | 36.70 | 54.00 | -17.30 | Average | 100 | 100 | P |
| 4 | 4924.00 | 5.10 | 44.64 | 49.74 | 74.00 | -24.26 | Peak | 100 | 100 | P |
| 5 | 7386.00 | 9.94 | 27.52 | 37.46 | 54.00 | -16.54 | Average | 100 | 200 | P |
| 6 | 7386.00 | 9.94 | 41.17 | 51.11 | 74.00 | -22.89 | Peak | 100 | 200 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH03 | | : |

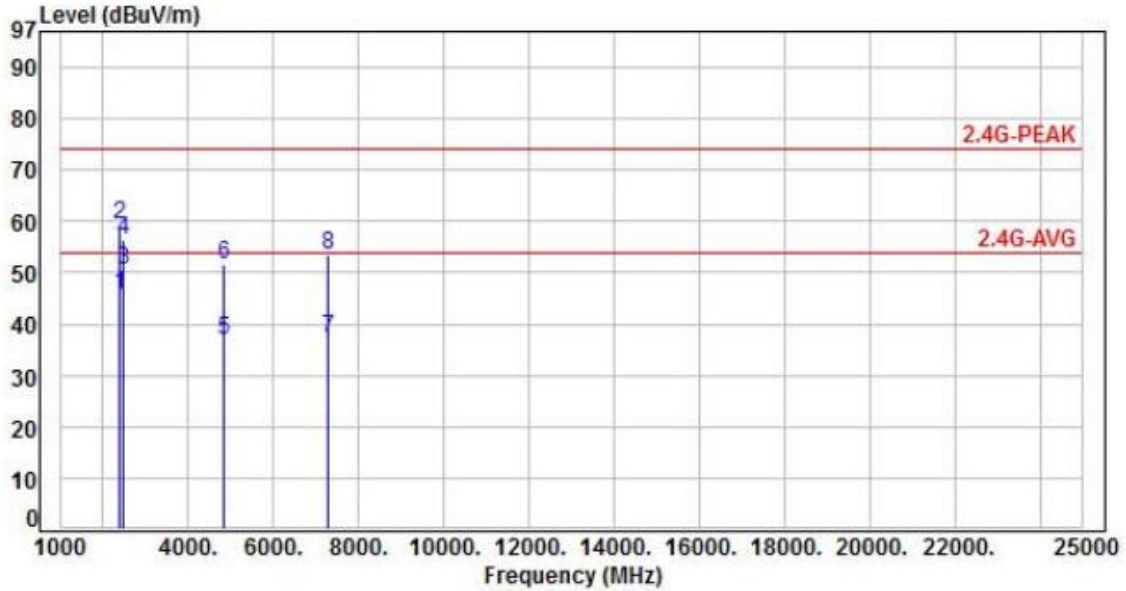


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 50.55 | 47.66 | 54.00 | -6.34 | Average | 145 | 245 | P |
| 2 | 2390.00 | -2.89 | 62.85 | 59.96 | 74.00 | -14.04 | Peak | 145 | 245 | P |
| 3 | 2483.50 | -2.66 | 45.78 | 43.12 | 54.00 | -10.88 | Average | 105 | 90 | P |
| 4 | 2483.50 | -2.66 | 56.69 | 54.03 | 74.00 | -19.97 | Peak | 105 | 90 | P |
| 5 | 4844.00 | 4.80 | 30.26 | 35.06 | 54.00 | -18.94 | Average | 100 | 120 | P |
| 6 | 4844.00 | 4.80 | 46.25 | 51.05 | 74.00 | -22.95 | Peak | 100 | 120 | P |
| 7 | 7266.00 | 9.63 | 27.87 | 37.50 | 54.00 | -16.50 | Average | 100 | 57 | P |
| 8 | 7266.00 | 9.63 | 43.83 | 53.46 | 74.00 | -20.54 | Peak | 100 | 57 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH03 | | : |

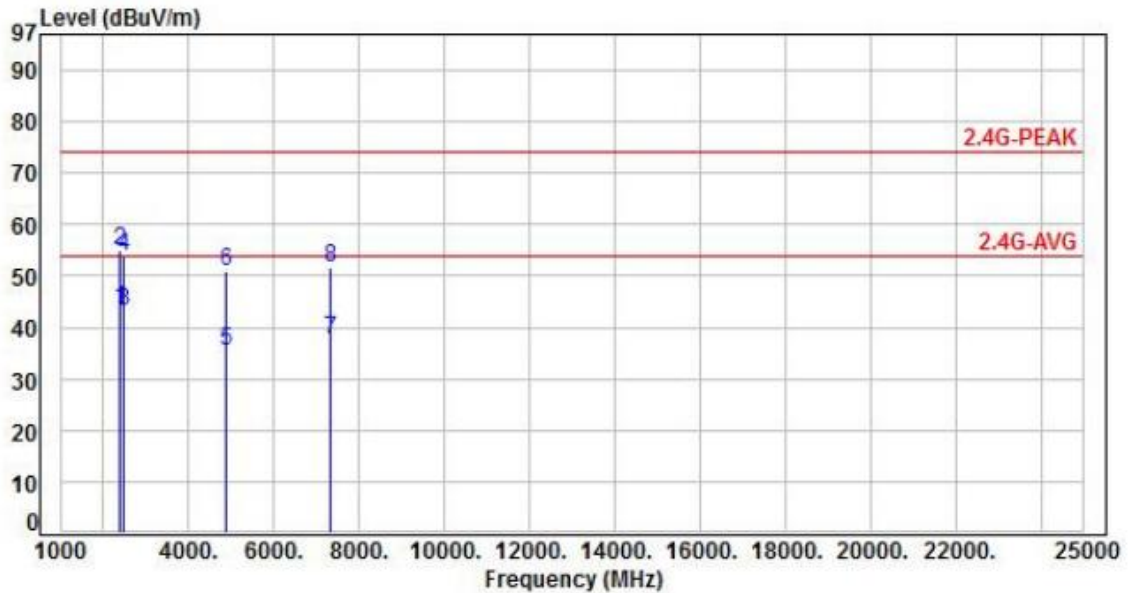


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 48.44 | 45.55 | 54.00 | -8.45 | Average | 100 | 335 | P |
| 2 | 2390.00 | -2.89 | 62.09 | 59.20 | 74.00 | -14.80 | Peak | 100 | 335 | P |
| 3 | 2483.50 | -2.66 | 53.06 | 50.40 | 54.00 | -3.60 | Average | 175 | 105 | P |
| 4 | 2483.50 | -2.66 | 58.93 | 56.27 | 74.00 | -17.73 | Peak | 175 | 105 | P |
| 5 | 4844.00 | 4.80 | 32.06 | 36.86 | 54.00 | -17.14 | Average | 100 | 211 | P |
| 6 | 4844.00 | 4.80 | 46.70 | 51.50 | 74.00 | -22.50 | Peak | 100 | 211 | P |
| 7 | 7266.00 | 9.63 | 27.54 | 37.17 | 54.00 | -16.83 | Average | 100 | 19 | P |
| 8 | 7266.00 | 9.63 | 43.91 | 53.54 | 74.00 | -20.46 | Peak | 100 | 19 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH06 | | : |

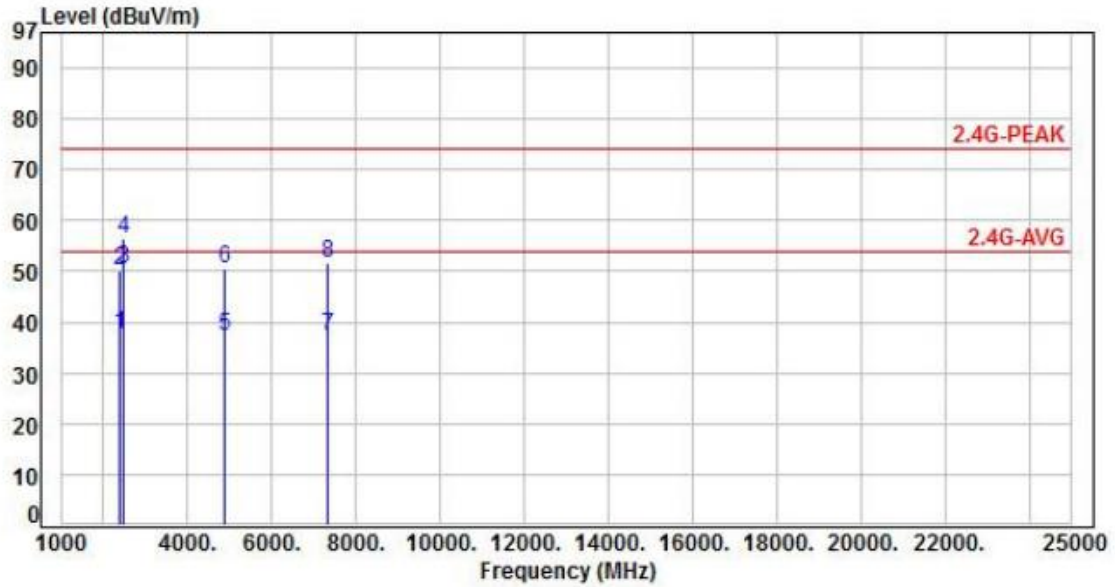


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 46.55 | 43.66 | 54.00 | -10.34 | Average | 150 | 100 | P |
| 2 | 2390.00 | -2.89 | 57.85 | 54.96 | 74.00 | -19.04 | Peak | 150 | 100 | P |
| 3 | 2483.50 | -2.66 | 45.78 | 43.12 | 54.00 | -10.88 | Average | 105 | 90 | P |
| 4 | 2483.50 | -2.66 | 56.69 | 54.03 | 74.00 | -19.97 | Peak | 105 | 90 | P |
| 5 | 4874.00 | 4.89 | 30.62 | 35.51 | 54.00 | -18.49 | Average | 100 | 130 | P |
| 6 | 4874.00 | 4.89 | 46.12 | 51.01 | 74.00 | -22.99 | Peak | 100 | 130 | P |
| 7 | 7311.00 | 9.81 | 27.88 | 37.69 | 54.00 | -16.31 | Average | 100 | 50 | P |
| 8 | 7311.00 | 9.81 | 41.65 | 51.46 | 74.00 | -22.54 | Peak | 100 | 50 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH06 | | : |

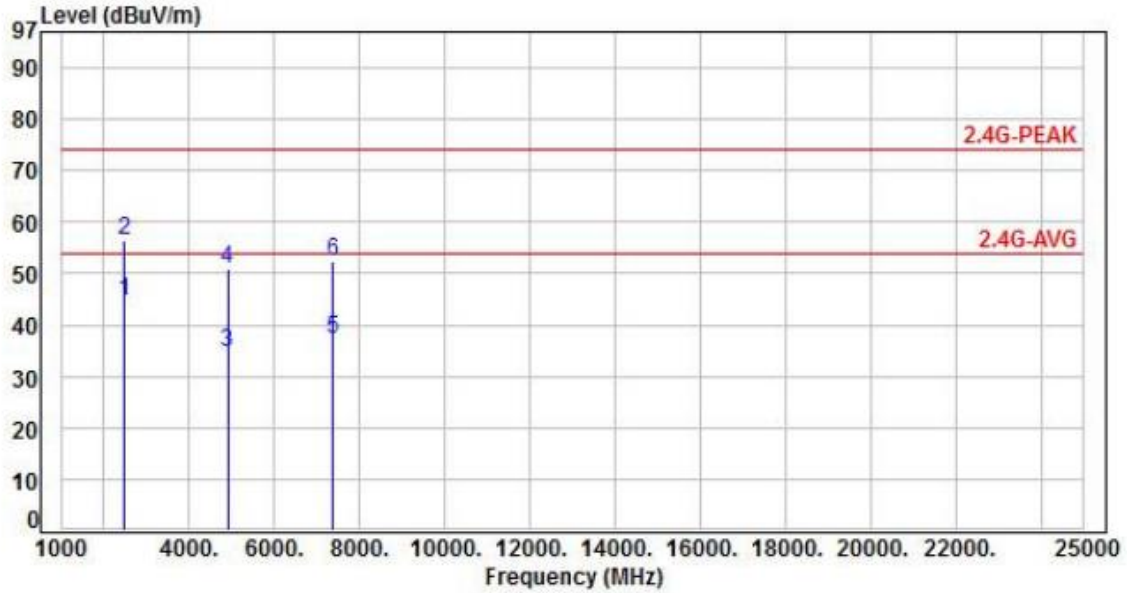


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -2.89 | 40.44 | 37.55 | 54.00 | -16.45 | Average | 100 | 295 | P |
| 2 | 2390.00 | -2.89 | 53.09 | 50.20 | 74.00 | -23.80 | Peak | 100 | 295 | P |
| 3 | 2483.50 | -2.66 | 53.06 | 50.40 | 54.00 | -3.60 | Average | 175 | 105 | P |
| 4 | 2483.50 | -2.66 | 58.93 | 56.27 | 74.00 | -17.73 | Peak | 175 | 105 | P |
| 5 | 4874.00 | 4.89 | 32.41 | 37.30 | 54.00 | -16.70 | Average | 100 | 185 | P |
| 6 | 4874.00 | 4.89 | 45.62 | 50.51 | 74.00 | -23.49 | Peak | 100 | 185 | P |
| 7 | 7311.00 | 9.81 | 27.43 | 37.24 | 54.00 | -16.76 | Average | 100 | 245 | P |
| 8 | 7311.00 | 9.81 | 41.69 | 51.50 | 74.00 | -22.50 | Peak | 100 | 245 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 6, CH09 | | : |

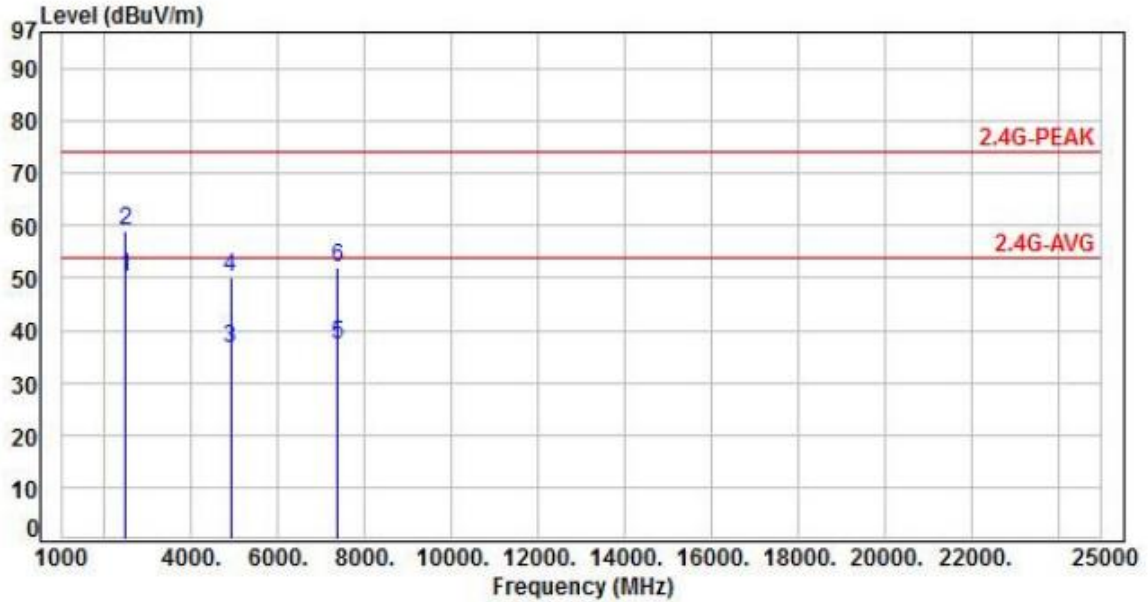


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 47.44 | 44.78 | 54.00 | -9.22 | Average | 105 | 90 | P |
| 2 | 2483.50 | -2.66 | 59.07 | 56.41 | 74.00 | -17.59 | Peak | 105 | 90 | P |
| 3 | 4904.00 | 4.99 | 29.73 | 34.72 | 54.00 | -19.28 | Average | 100 | 71 | P |
| 4 | 4904.00 | 4.99 | 45.86 | 50.85 | 74.00 | -23.15 | Peak | 100 | 71 | P |
| 5 | 7356.00 | 9.91 | 27.41 | 37.32 | 54.00 | -16.68 | Average | 100 | 151 | P |
| 6 | 7356.00 | 9.91 | 42.40 | 52.31 | 74.00 | -21.69 | Peak | 100 | 151 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 6, CH09 | | : |

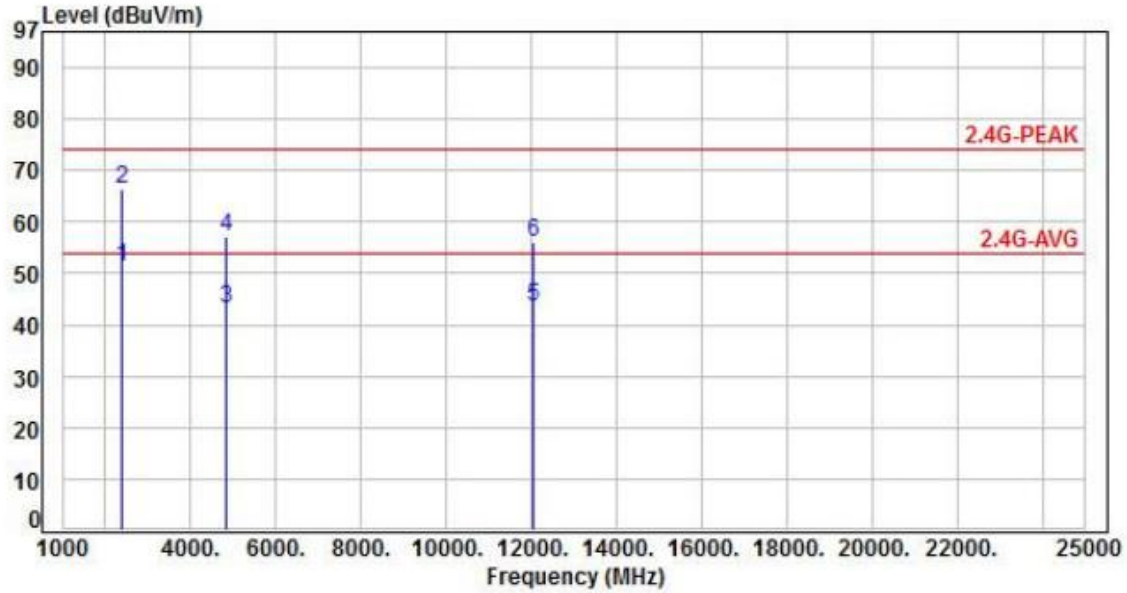


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -2.66 | 52.70 | 50.04 | 54.00 | -3.96 | Average | 175 | 105 | P |
| 2 | 2483.50 | -2.66 | 61.51 | 58.85 | 74.00 | -15.15 | Peak | 175 | 105 | P |
| 3 | 4904.00 | 4.99 | 31.44 | 36.43 | 54.00 | -17.57 | Average | 100 | 153 | P |
| 4 | 4904.00 | 4.99 | 45.27 | 50.26 | 74.00 | -23.74 | Peak | 100 | 153 | P |
| 5 | 7356.00 | 9.91 | 27.23 | 37.14 | 54.00 | -16.86 | Average | 130 | 85 | P |
| 6 | 7356.00 | 9.91 | 42.15 | 52.06 | 74.00 | -21.94 | Peak | 130 | 85 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 7, CH01 | | : |

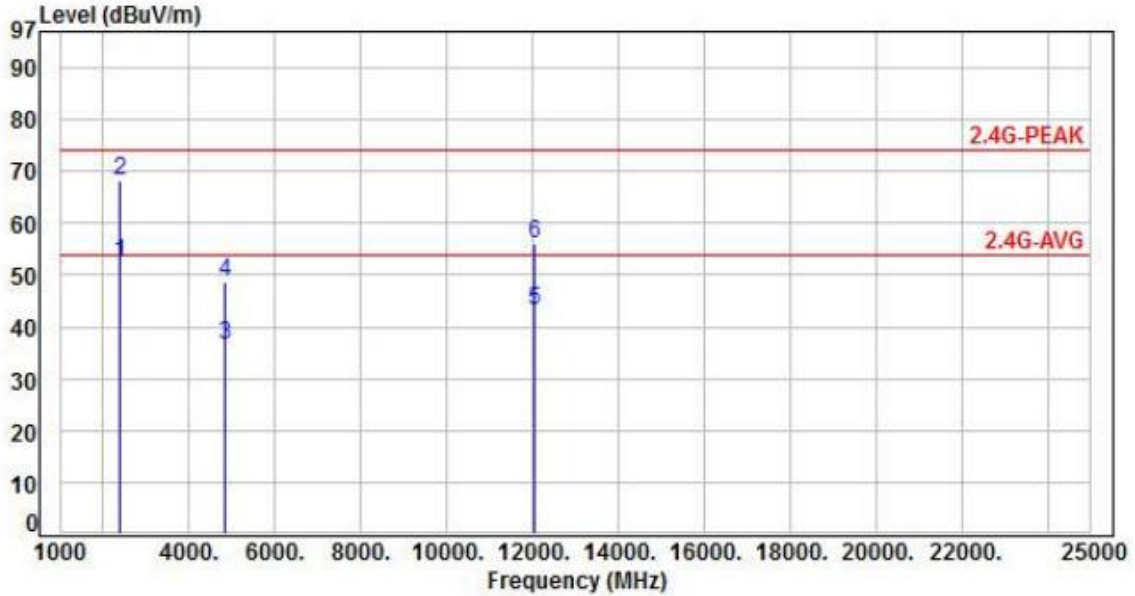


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 54.74 | 51.12 | 54.00 | -2.88 | Average | 311 | 297 | P |
| 2 | 2390.00 | -3.62 | 70.09 | 66.47 | 74.00 | -7.53 | Peak | 311 | 297 | P |
| 3 | 4824.00 | 3.73 | 39.27 | 43.00 | 54.00 | -11.00 | Average | 320 | 102 | P |
| 4 | 4824.00 | 3.73 | 53.33 | 57.06 | 74.00 | -16.94 | Peak | 320 | 102 | P |
| 5 | 12060.00 | 13.35 | 30.25 | 43.60 | 54.00 | -10.40 | Average | 100 | 254 | P |
| 6 | 12060.00 | 13.35 | 42.54 | 55.89 | 74.00 | -18.11 | Peak | 100 | 254 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 7, CH01 | | : |

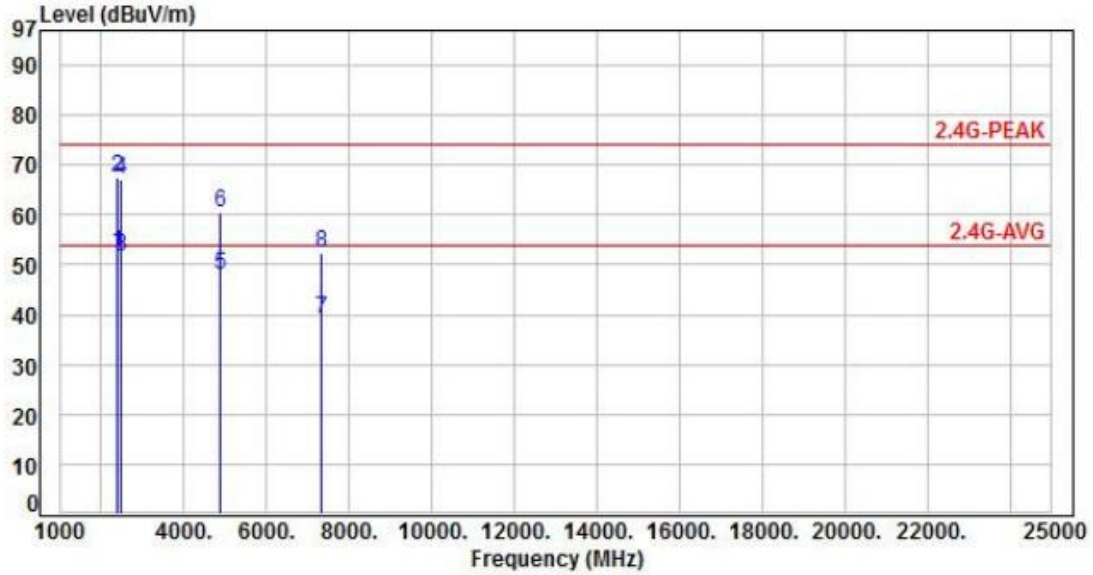


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.99 | 52.37 | 54.00 | -1.63 | Average | 186 | 86 | P |
| 2 | 2390.00 | -3.62 | 71.92 | 68.30 | 74.00 | -5.70 | Peak | 186 | 86 | P |
| 3 | 4824.00 | 3.73 | 32.93 | 36.66 | 54.00 | -17.34 | Average | 107 | 281 | P |
| 4 | 4824.00 | 3.73 | 44.92 | 48.65 | 74.00 | -25.35 | Peak | 107 | 281 | P |
| 5 | 12060.00 | 13.35 | 29.97 | 43.32 | 54.00 | -10.68 | Average | 100 | 276 | P |
| 6 | 12060.00 | 13.35 | 42.85 | 56.20 | 74.00 | -17.80 | Peak | 100 | 276 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 7, CH06 | | : |

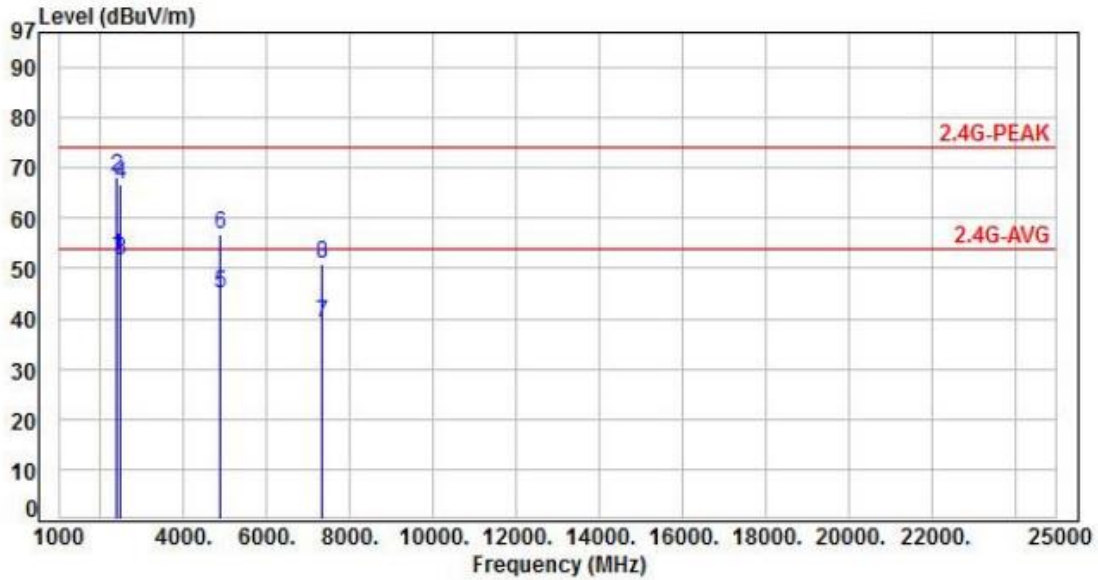


| No. | Frequency (MHz) | Factor (dB) | Reading (dBUV) | Level (dBUV/m) | Limit (dBUV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.95 | 52.33 | 54.00 | -1.67 | Average | 108 | 308 | P |
| 2 | 2390.00 | -3.62 | 71.28 | 67.66 | 74.00 | -6.34 | Peak | 108 | 308 | P |
| 3 | 2483.50 | -3.40 | 55.11 | 51.71 | 54.00 | -2.29 | Average | 108 | 308 | P |
| 4 | 2483.50 | -3.40 | 70.38 | 66.98 | 74.00 | -7.02 | Peak | 108 | 308 | P |
| 5 | 4874.00 | 3.90 | 44.05 | 47.95 | 54.00 | -6.05 | Average | 298 | 100 | P |
| 6 | 4874.00 | 3.90 | 56.76 | 60.66 | 74.00 | -13.34 | Peak | 298 | 100 | P |
| 7 | 7311.00 | 8.48 | 30.71 | 39.19 | 54.00 | -14.81 | Average | 100 | 345 | P |
| 8 | 7311.00 | 8.48 | 43.74 | 52.22 | 74.00 | -21.78 | Peak | 100 | 345 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 7, CH06 | | : |

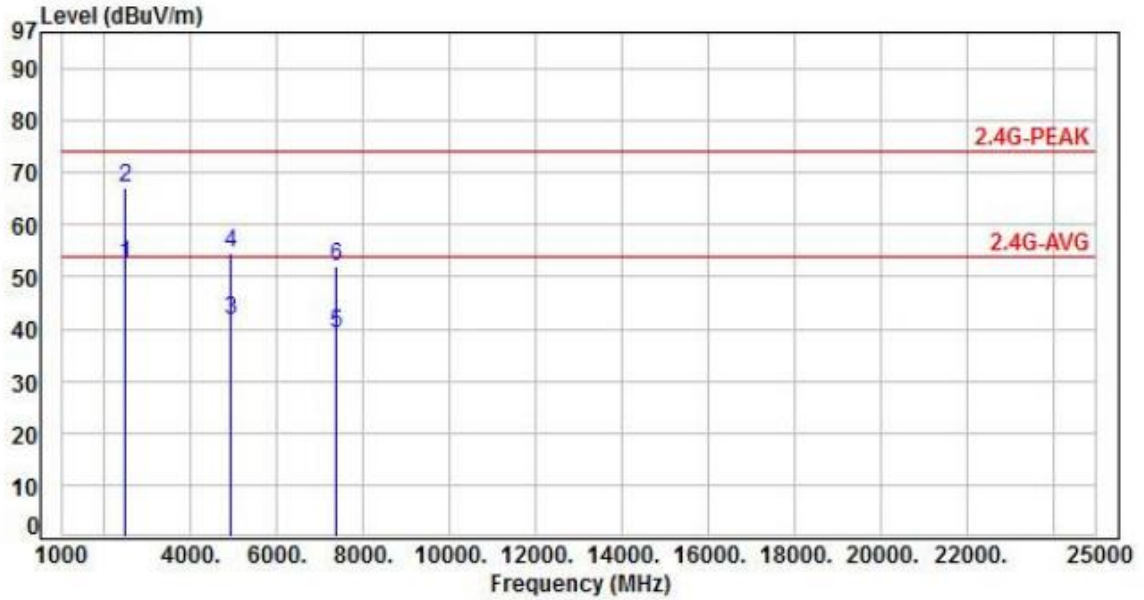


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.93 | 52.31 | 54.00 | -1.69 | Average | 359 | 80 | P |
| 2 | 2390.00 | -3.62 | 71.80 | 68.18 | 74.00 | -5.82 | Peak | 359 | 80 | P |
| 3 | 2483.50 | -3.40 | 54.99 | 51.59 | 54.00 | -2.41 | Average | 359 | 80 | P |
| 4 | 2483.50 | -3.40 | 70.08 | 66.68 | 74.00 | -7.32 | Peak | 359 | 80 | P |
| 5 | 4874.00 | 3.90 | 41.09 | 44.99 | 54.00 | -9.01 | Average | 384 | 79 | P |
| 6 | 4874.00 | 3.90 | 53.00 | 56.90 | 74.00 | -17.10 | Peak | 384 | 79 | P |
| 7 | 7311.00 | 8.48 | 30.62 | 39.10 | 54.00 | -14.90 | Average | 100 | 247 | P |
| 8 | 7311.00 | 8.48 | 42.52 | 51.00 | 74.00 | -23.00 | Peak | 100 | 247 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 7, CH11 | | : |

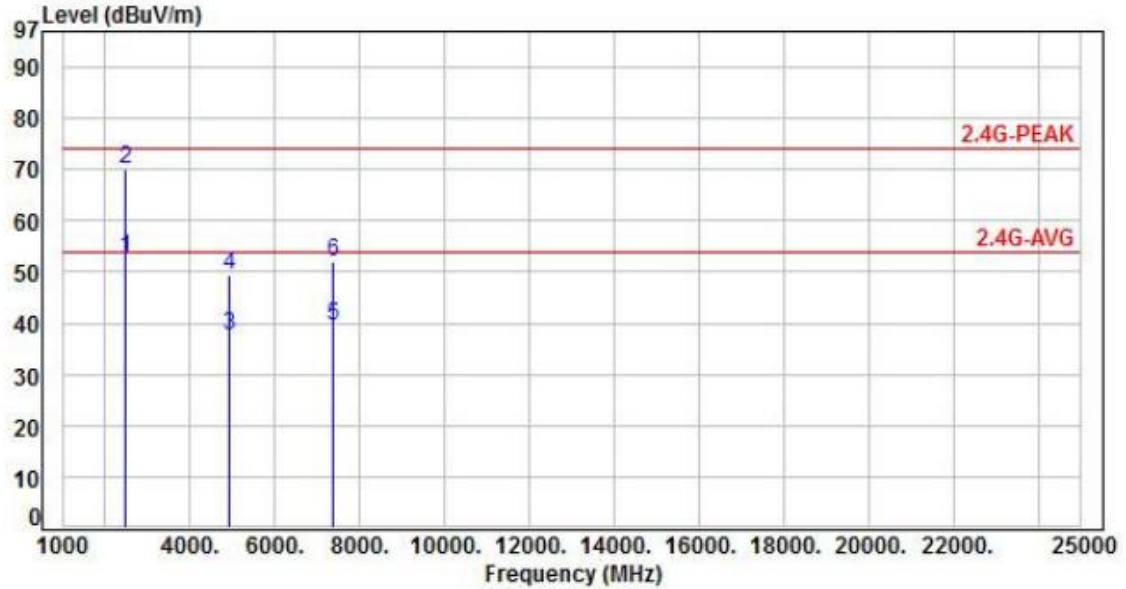


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 55.63 | 52.23 | 54.00 | -1.77 | Average | 100 | 311 | P |
| 2 | 2483.50 | -3.40 | 70.57 | 67.17 | 74.00 | -6.83 | Peak | 100 | 311 | P |
| 3 | 4924.00 | 4.10 | 37.60 | 41.70 | 54.00 | -12.30 | Average | 278 | 97 | P |
| 4 | 4924.00 | 4.10 | 50.39 | 54.49 | 74.00 | -19.51 | Peak | 278 | 97 | P |
| 5 | 7386.00 | 8.59 | 30.33 | 38.92 | 54.00 | -15.08 | Average | 100 | 166 | P |
| 6 | 7386.00 | 8.59 | 43.52 | 52.11 | 74.00 | -21.89 | Peak | 100 | 166 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 7, CH11 | | : |

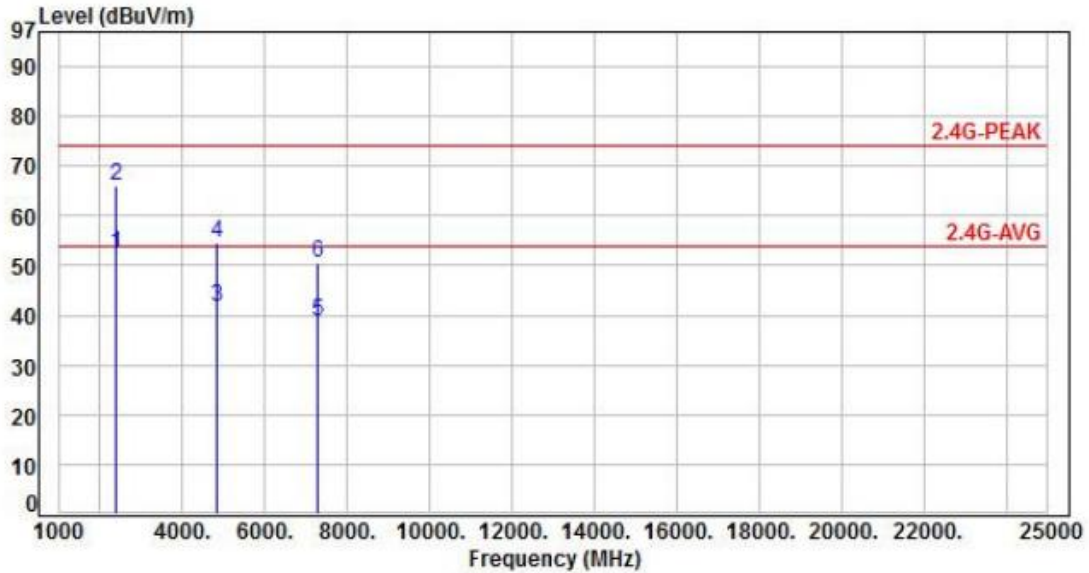


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 55.97 | 52.57 | 54.00 | -1.43 | Average | 268 | 102 | P |
| 2 | 2483.50 | -3.40 | 73.40 | 70.00 | 74.00 | -4.00 | Peak | 268 | 102 | P |
| 3 | 4924.00 | 4.10 | 33.60 | 37.70 | 54.00 | -16.30 | Average | 126 | 370 | P |
| 4 | 4924.00 | 4.10 | 45.50 | 49.60 | 74.00 | -24.40 | Peak | 126 | 370 | P |
| 5 | 7386.00 | 8.59 | 30.75 | 39.34 | 54.00 | -14.66 | Average | 100 | 145 | P |
| 6 | 7386.00 | 8.59 | 43.39 | 51.98 | 74.00 | -22.02 | Peak | 100 | 145 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 8, CH03 | | : |

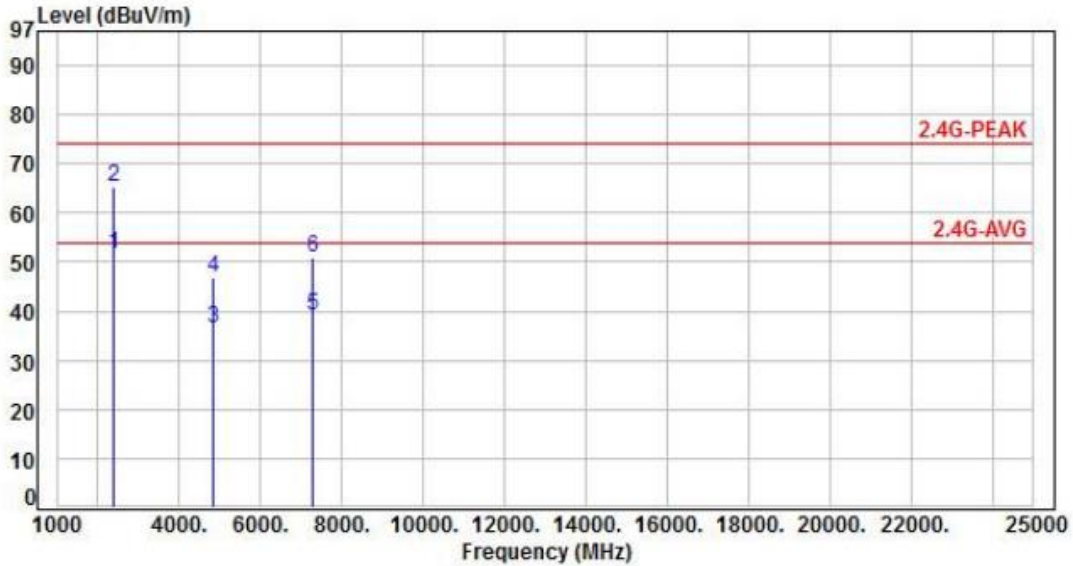


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.85 | 52.23 | 54.00 | -1.77 | Average | 100 | 320 | P |
| 2 | 2390.00 | -3.62 | 69.73 | 66.11 | 74.00 | -7.89 | Peak | 100 | 320 | P |
| 3 | 4844.00 | 3.80 | 37.88 | 41.68 | 54.00 | -12.32 | Average | 398 | 105 | P |
| 4 | 4844.00 | 3.80 | 50.63 | 54.43 | 74.00 | -19.57 | Peak | 398 | 105 | P |
| 5 | 7266.00 | 8.30 | 30.46 | 38.76 | 54.00 | -15.24 | Average | 100 | 77 | P |
| 6 | 7266.00 | 8.30 | 42.34 | 50.64 | 74.00 | -23.36 | Peak | 100 | 77 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 8, CH03 | | : |

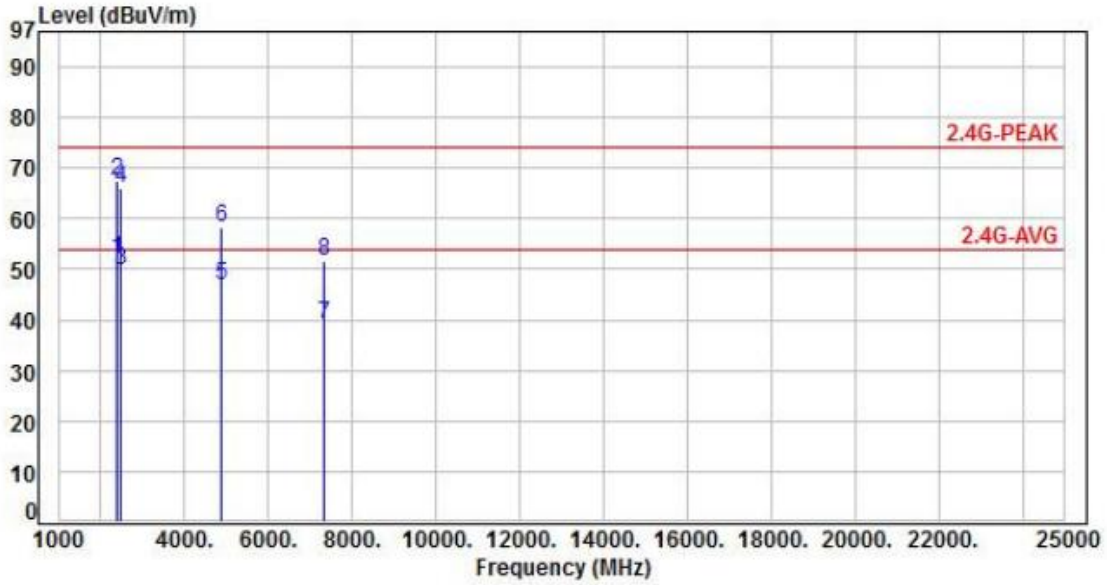


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.40 | 51.78 | 54.00 | -2.22 | Average | 208 | 81 | P |
| 2 | 2390.00 | -3.62 | 68.85 | 65.23 | 74.00 | -8.77 | Peak | 208 | 81 | P |
| 3 | 4844.00 | 3.80 | 32.87 | 36.67 | 54.00 | -17.33 | Average | 100 | 276 | P |
| 4 | 4844.00 | 3.80 | 43.14 | 46.94 | 74.00 | -27.06 | Peak | 100 | 276 | P |
| 5 | 7266.00 | 8.30 | 30.93 | 39.23 | 54.00 | -14.77 | Average | 100 | 183 | P |
| 6 | 7266.00 | 8.30 | 42.70 | 51.00 | 74.00 | -23.00 | Peak | 100 | 183 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 8, CH06 | | : |

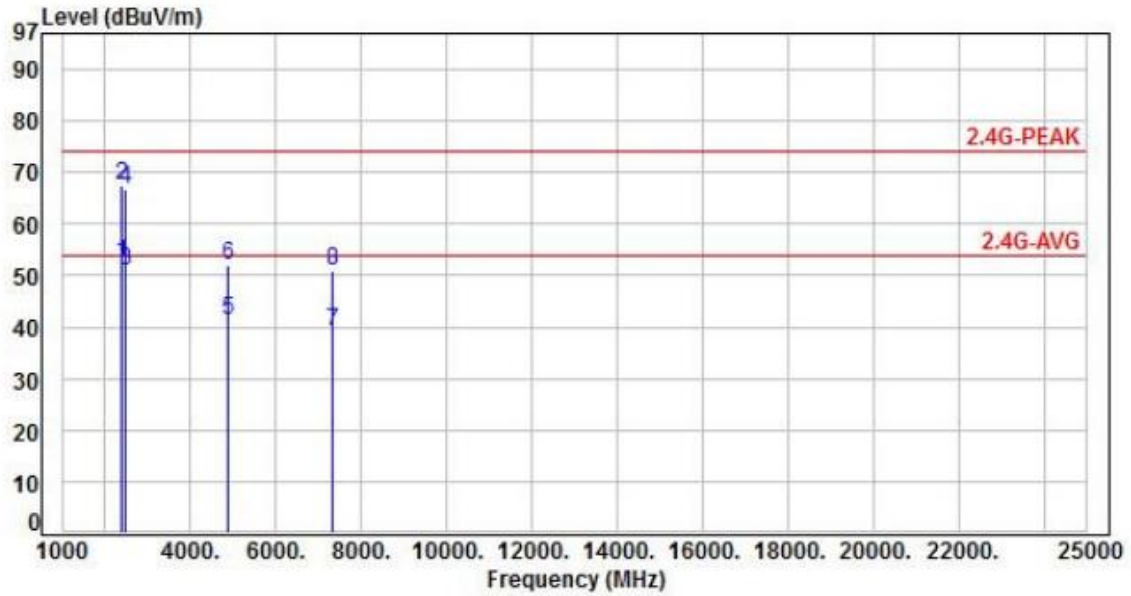


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.50 | 51.88 | 54.00 | -2.12 | Average | 280 | 328 | P |
| 2 | 2390.00 | -3.62 | 71.23 | 67.61 | 74.00 | -6.39 | Peak | 280 | 328 | P |
| 3 | 2483.50 | -3.40 | 53.37 | 49.97 | 54.00 | -4.03 | Average | 280 | 328 | P |
| 4 | 2483.50 | -3.40 | 69.25 | 65.85 | 74.00 | -8.15 | Peak | 280 | 328 | P |
| 5 | 4874.00 | 3.90 | 42.82 | 46.72 | 54.00 | -7.28 | Average | 125 | 103 | P |
| 6 | 4874.00 | 3.90 | 54.54 | 58.44 | 74.00 | -15.56 | Peak | 125 | 103 | P |
| 7 | 7311.00 | 8.48 | 30.52 | 39.00 | 54.00 | -15.00 | Average | 100 | 57 | P |
| 8 | 7311.00 | 8.48 | 43.15 | 51.63 | 74.00 | -22.37 | Peak | 100 | 57 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 8, CH06 | | : |

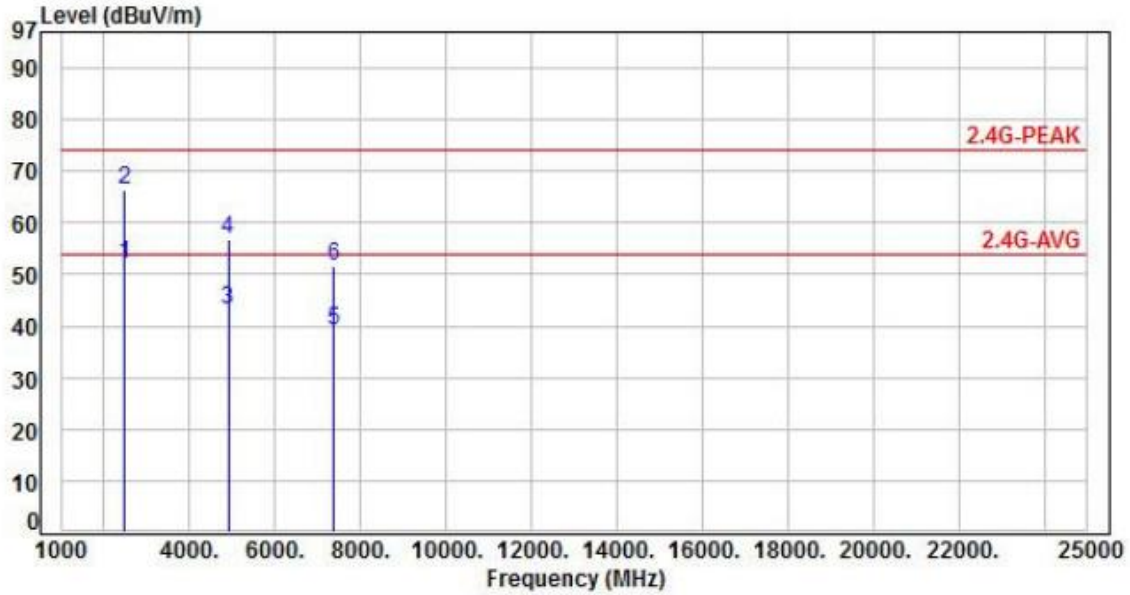


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.84 | 52.22 | 54.00 | -1.78 | Average | 400 | 81 | P |
| 2 | 2390.00 | -3.62 | 71.26 | 67.64 | 74.00 | -6.36 | Peak | 400 | 81 | P |
| 3 | 2483.50 | -3.40 | 54.47 | 51.07 | 54.00 | -2.93 | Average | 400 | 81 | P |
| 4 | 2483.50 | -3.40 | 70.04 | 66.64 | 74.00 | -7.36 | Peak | 400 | 81 | P |
| 5 | 4874.00 | 3.90 | 37.44 | 41.34 | 54.00 | -12.66 | Average | 100 | 66 | P |
| 6 | 4874.00 | 3.90 | 48.22 | 52.12 | 74.00 | -21.88 | Peak | 100 | 66 | P |
| 7 | 7311.00 | 8.48 | 30.48 | 38.96 | 54.00 | -15.04 | Average | 100 | 289 | P |
| 8 | 7311.00 | 8.48 | 42.37 | 50.85 | 74.00 | -23.15 | Peak | 100 | 289 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 8, CH09 | | : |

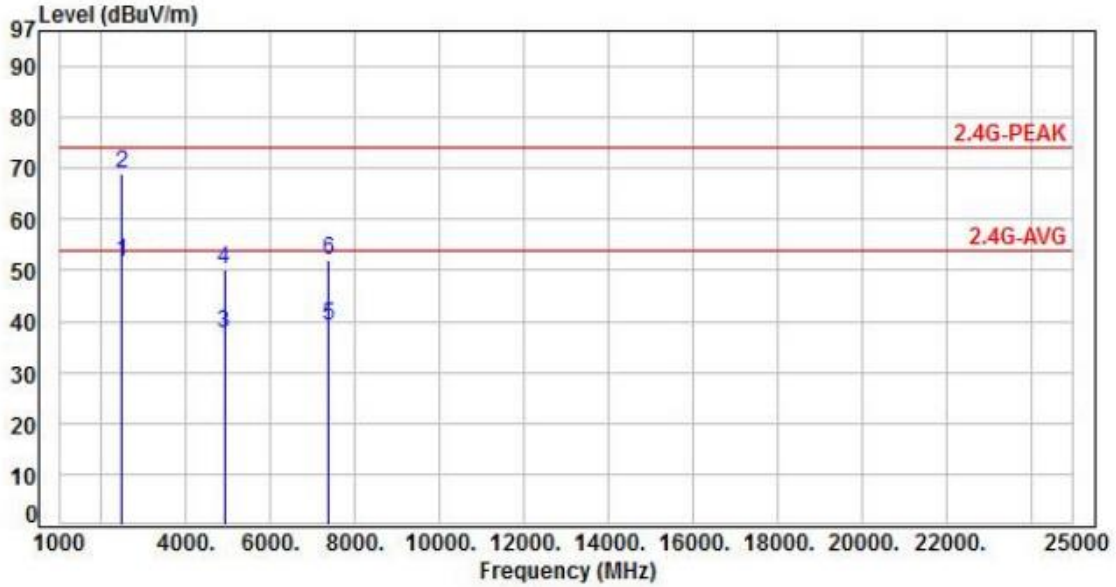


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 55.58 | 52.18 | 54.00 | -1.82 | Average | 331 | 300 | P |
| 2 | 2483.50 | -3.40 | 69.97 | 66.57 | 74.00 | -7.43 | Peak | 331 | 300 | P |
| 3 | 4904.00 | 4.00 | 39.05 | 43.05 | 54.00 | -10.95 | Average | 100 | 113 | P |
| 4 | 4904.00 | 4.00 | 52.64 | 56.64 | 74.00 | -17.36 | Peak | 100 | 113 | P |
| 5 | 7356.00 | 8.58 | 30.34 | 38.92 | 54.00 | -15.08 | Average | 100 | 72 | P |
| 6 | 7356.00 | 8.58 | 42.88 | 51.46 | 74.00 | -22.54 | Peak | 100 | 72 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 8, CH09 | | : |

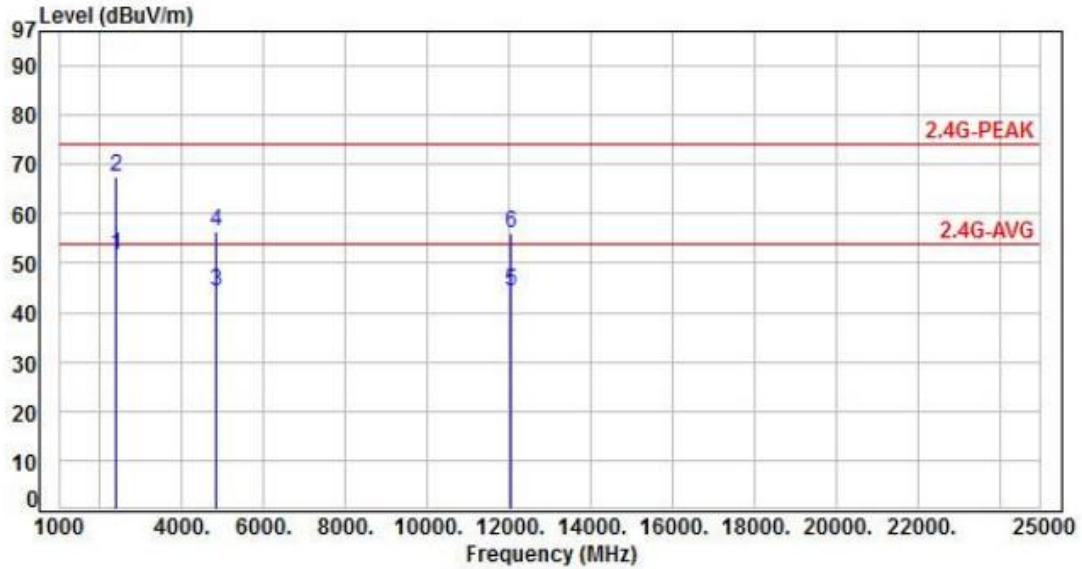


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 55.21 | 51.81 | 54.00 | -2.19 | Average | 357 | 91 | P |
| 2 | 2483.50 | -3.40 | 72.40 | 69.00 | 74.00 | -5.00 | Peak | 357 | 91 | P |
| 3 | 4904.00 | 4.00 | 33.78 | 37.78 | 54.00 | -16.22 | Average | 392 | 123 | P |
| 4 | 4904.00 | 4.00 | 46.28 | 50.28 | 74.00 | -23.72 | Peak | 392 | 123 | P |
| 5 | 7356.00 | 8.58 | 30.58 | 39.16 | 54.00 | -14.84 | Average | 100 | 212 | P |
| 6 | 7356.00 | 8.58 | 43.26 | 51.84 | 74.00 | -22.16 | Peak | 100 | 212 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 9, CH01 | | : |

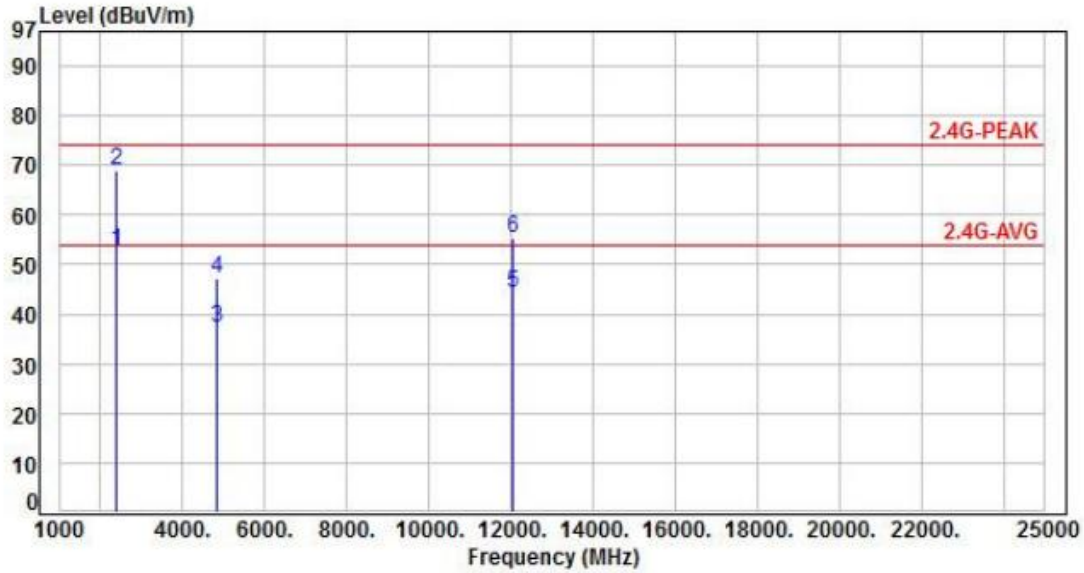


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.16 | 51.54 | 54.00 | -2.46 | Average | 271 | 305 | P |
| 2 | 2390.00 | -3.62 | 71.21 | 67.59 | 74.00 | -6.41 | Peak | 271 | 305 | P |
| 3 | 4824.00 | 3.73 | 40.57 | 44.30 | 54.00 | -9.70 | Average | 100 | 89 | P |
| 4 | 4824.00 | 3.73 | 52.88 | 56.61 | 74.00 | -17.39 | Peak | 100 | 89 | P |
| 5 | 12060.00 | 13.35 | 31.07 | 44.42 | 54.00 | -9.58 | Average | 100 | 153 | P |
| 6 | 12060.00 | 13.35 | 42.62 | 55.97 | 74.00 | -18.03 | Peak | 100 | 153 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 9, CH01 | | : |

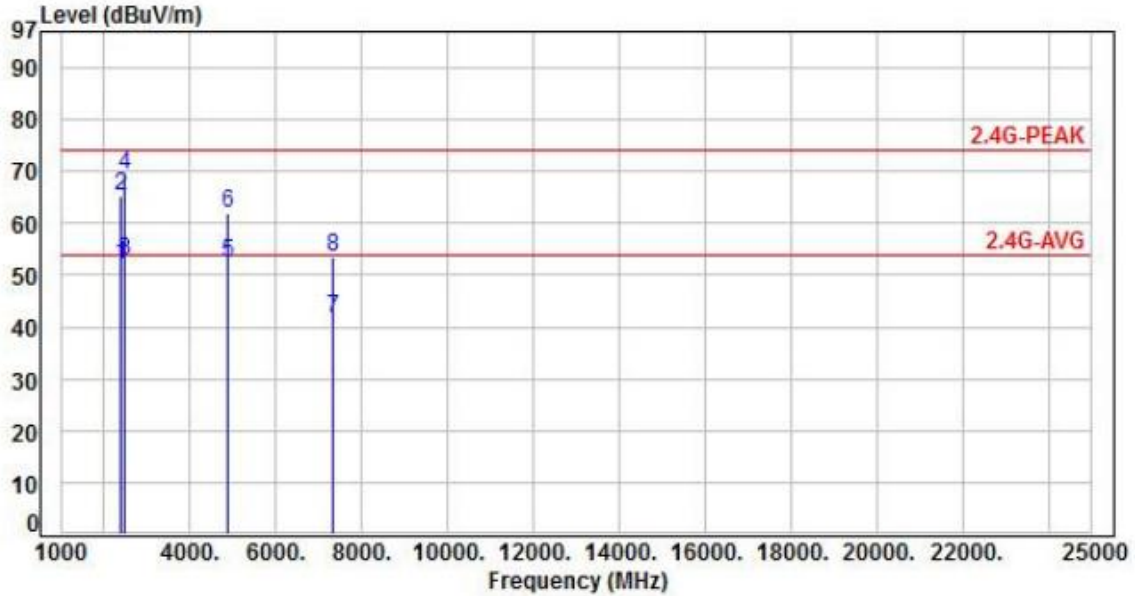


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 56.54 | 52.92 | 54.00 | -1.08 | Average | 100 | 314 | P |
| 2 | 2390.00 | -3.62 | 72.56 | 68.94 | 74.00 | -5.06 | Peak | 100 | 314 | P |
| 3 | 4824.00 | 3.73 | 33.51 | 37.24 | 54.00 | -16.76 | Average | 100 | 143 | P |
| 4 | 4824.00 | 3.73 | 43.60 | 47.33 | 74.00 | -26.67 | Peak | 100 | 143 | P |
| 5 | 12060.00 | 13.35 | 31.06 | 44.41 | 54.00 | -9.59 | Average | 100 | 299 | P |
| 6 | 12060.00 | 13.35 | 42.11 | 55.46 | 74.00 | -18.54 | Peak | 100 | 299 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 9, CH06 | | : |

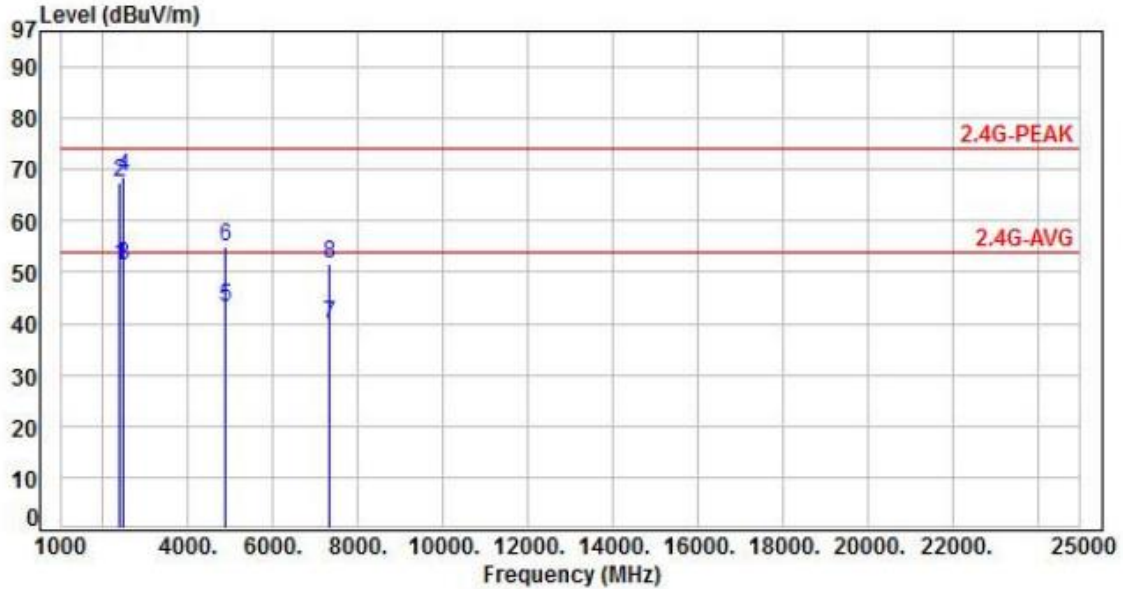


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.45 | 51.83 | 54.00 | -2.17 | Average | 376 | 226 | P |
| 2 | 2390.00 | -3.62 | 68.79 | 65.17 | 74.00 | -8.83 | Peak | 376 | 226 | P |
| 3 | 2483.50 | -3.40 | 56.18 | 52.78 | 54.00 | -1.22 | Average | 376 | 226 | P |
| 4 | 2483.50 | -3.40 | 72.56 | 69.16 | 74.00 | -4.84 | Peak | 376 | 226 | P |
| 5 | 4874.00 | 3.90 | 48.30 | 52.20 | 54.00 | -1.80 | Average | 100 | 87 | P |
| 6 | 4874.00 | 3.90 | 58.11 | 62.01 | 74.00 | -11.99 | Peak | 100 | 87 | P |
| 7 | 7311.00 | 8.48 | 33.06 | 41.54 | 54.00 | -12.46 | Average | 100 | 147 | P |
| 8 | 7311.00 | 8.48 | 45.03 | 53.51 | 74.00 | -20.49 | Peak | 100 | 147 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 9, CH06 | | : |

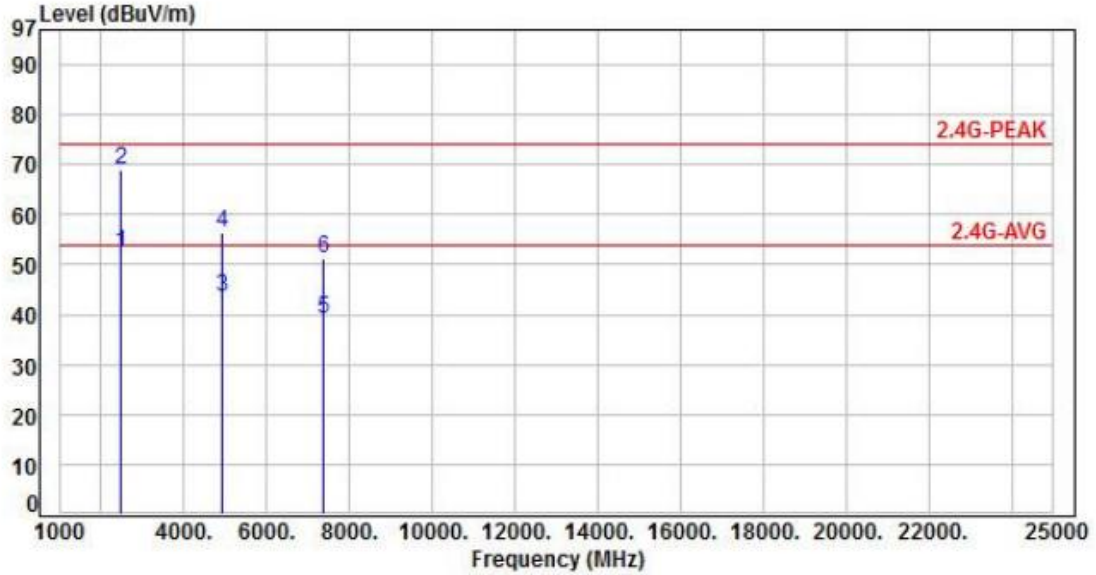


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 54.78 | 51.16 | 54.00 | -2.84 | Average | 100 | 281 | P |
| 2 | 2390.00 | -3.62 | 70.97 | 67.35 | 74.00 | -6.65 | Peak | 100 | 281 | P |
| 3 | 2483.50 | -3.40 | 54.54 | 51.14 | 54.00 | -2.86 | Average | 100 | 281 | P |
| 4 | 2483.50 | -3.40 | 72.04 | 68.64 | 74.00 | -5.36 | Peak | 100 | 281 | P |
| 5 | 4874.00 | 3.90 | 39.37 | 43.27 | 54.00 | -10.73 | Average | 266 | 40 | P |
| 6 | 4874.00 | 3.90 | 51.10 | 55.00 | 74.00 | -19.00 | Peak | 266 | 40 | P |
| 7 | 7311.00 | 8.48 | 31.51 | 39.99 | 54.00 | -14.01 | Average | 100 | 64 | P |
| 8 | 7311.00 | 8.48 | 43.22 | 51.70 | 74.00 | -22.30 | Peak | 100 | 64 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 9, CH11 | | : |

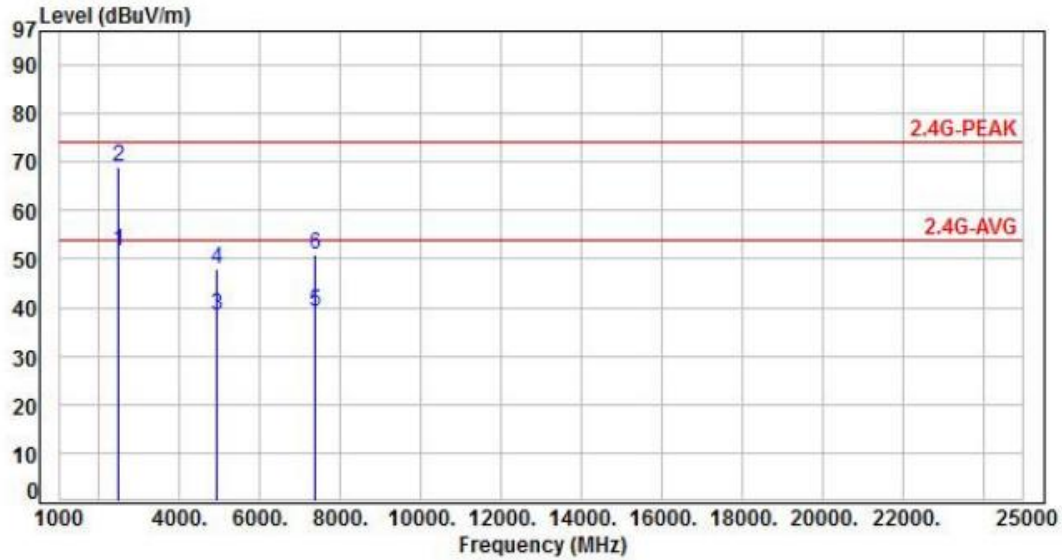


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 55.62 | 52.22 | 54.00 | -1.78 | Average | 216 | 274 | P |
| 2 | 2483.50 | -3.40 | 72.23 | 68.83 | 74.00 | -5.17 | Peak | 216 | 274 | P |
| 3 | 4924.00 | 4.10 | 39.49 | 43.59 | 54.00 | -10.41 | Average | 100 | 89 | P |
| 4 | 4924.00 | 4.10 | 52.21 | 56.31 | 74.00 | -17.69 | Peak | 100 | 89 | P |
| 5 | 7386.00 | 8.59 | 30.45 | 39.04 | 54.00 | -14.96 | Average | 100 | 49 | P |
| 6 | 7386.00 | 8.59 | 42.52 | 51.11 | 74.00 | -22.89 | Peak | 100 | 49 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 9, CH11 | | : |

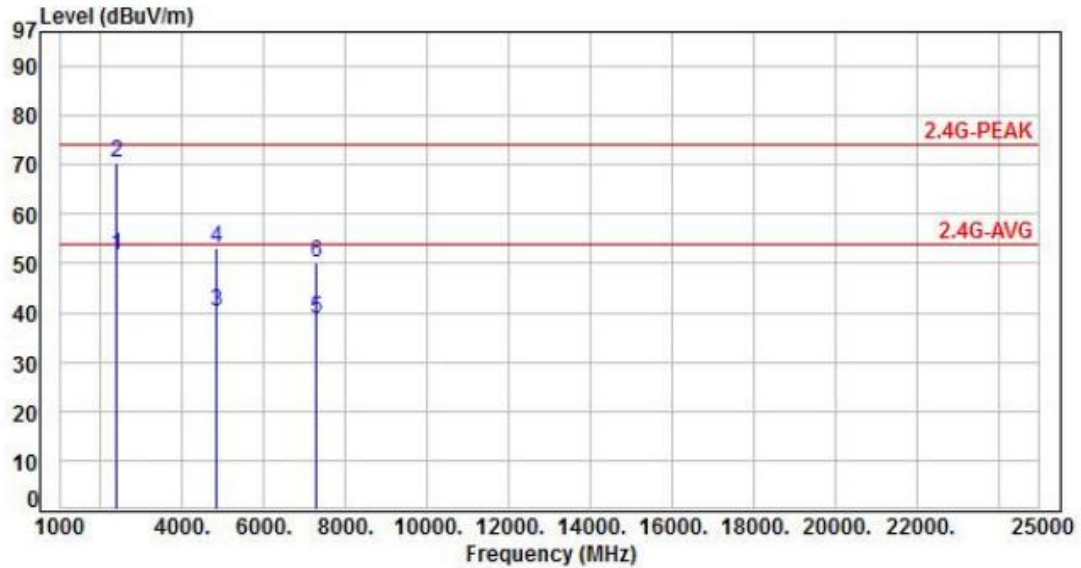


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 54.95 | 51.55 | 54.00 | -2.45 | Average | 100 | 285 | P |
| 2 | 2483.50 | -3.40 | 72.19 | 68.79 | 74.00 | -5.21 | Peak | 100 | 285 | P |
| 3 | 4924.00 | 4.10 | 34.16 | 38.26 | 54.00 | -15.74 | Average | 100 | 301 | P |
| 4 | 4924.00 | 4.10 | 43.90 | 48.00 | 74.00 | -26.00 | Peak | 100 | 301 | P |
| 5 | 7386.00 | 8.59 | 30.54 | 39.13 | 54.00 | -14.87 | Average | 100 | 346 | P |
| 6 | 7386.00 | 8.59 | 42.35 | 50.94 | 74.00 | -23.06 | Peak | 100 | 346 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 10, CH03 | | : |

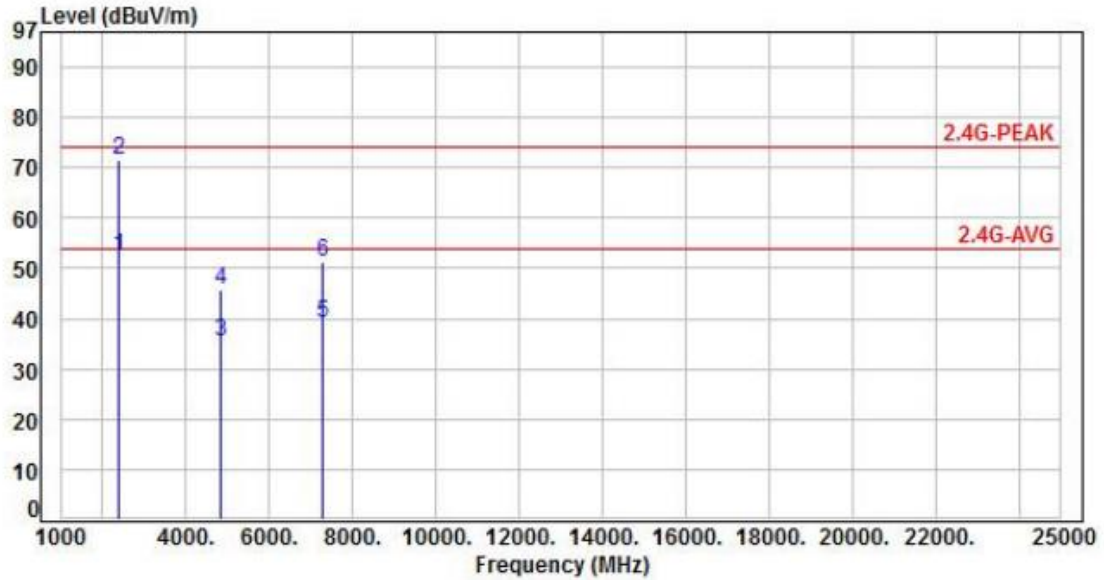


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.35 | 51.73 | 54.00 | -2.27 | Average | 290 | 11 | P |
| 2 | 2390.00 | -3.62 | 74.11 | 70.49 | 74.00 | -3.51 | Peak | 290 | 11 | P |
| 3 | 4844.00 | 3.80 | 36.48 | 40.28 | 54.00 | -13.72 | Average | 400 | 102 | P |
| 4 | 4844.00 | 3.80 | 49.30 | 53.10 | 74.00 | -20.90 | Peak | 400 | 102 | P |
| 5 | 7266.00 | 8.30 | 30.27 | 38.57 | 54.00 | -15.43 | Average | 100 | 86 | P |
| 6 | 7266.00 | 8.30 | 41.81 | 50.11 | 74.00 | -23.89 | Peak | 100 | 86 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 10, CH03 | | : |

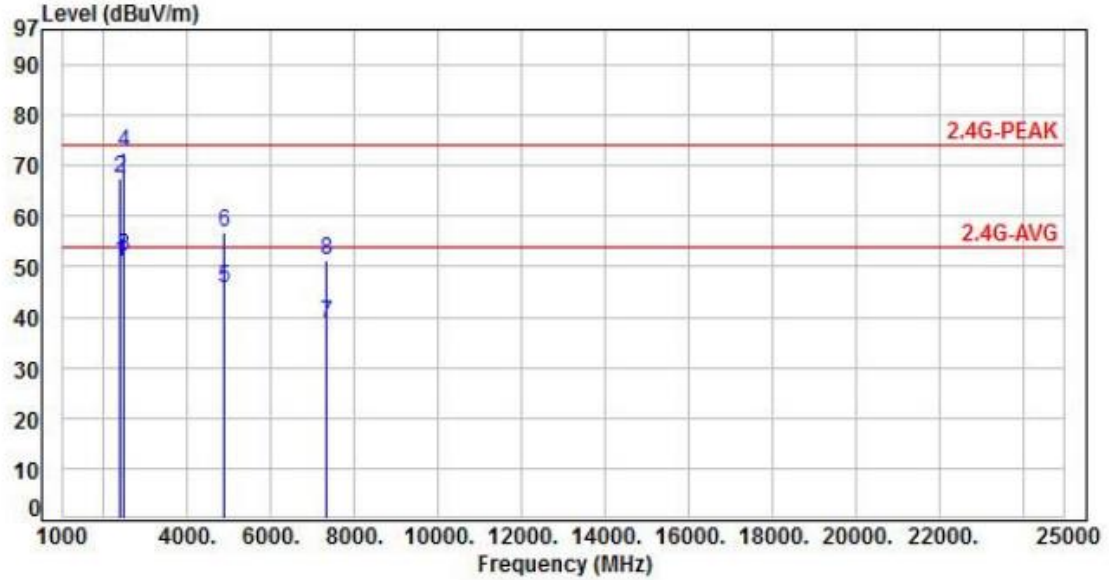


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 55.97 | 52.35 | 54.00 | -1.65 | Average | 100 | 295 | P |
| 2 | 2390.00 | -3.62 | 75.02 | 71.40 | 74.00 | -2.60 | Peak | 100 | 295 | P |
| 3 | 4844.00 | 3.80 | 31.51 | 35.31 | 54.00 | -18.69 | Average | 100 | 282 | P |
| 4 | 4844.00 | 3.80 | 42.01 | 45.81 | 74.00 | -28.19 | Peak | 100 | 282 | P |
| 5 | 7266.00 | 8.30 | 30.73 | 39.03 | 54.00 | -14.97 | Average | 100 | 187 | P |
| 6 | 7266.00 | 8.30 | 42.82 | 51.12 | 74.00 | -22.88 | Peak | 100 | 187 | P |

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 10, CH06 | | : |

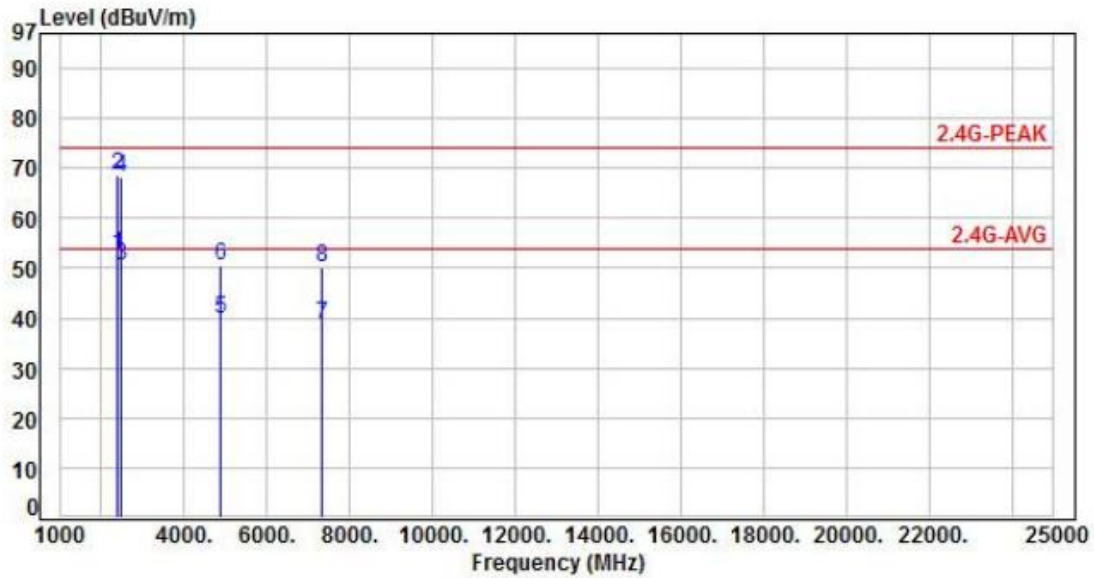


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 54.53 | 50.91 | 54.00 | -3.09 | Average | 331 | 247 | P |
| 2 | 2390.00 | -3.62 | 71.23 | 67.61 | 74.00 | -6.39 | Peak | 331 | 247 | P |
| 3 | 2483.50 | -3.40 | 55.36 | 51.96 | 54.00 | -2.04 | Average | 331 | 247 | P |
| 4 | 2483.50 | -3.40 | 75.89 | 72.49 | 74.00 | -1.51 | Peak | 331 | 247 | P |
| 5 | 4874.00 | 3.90 | 41.66 | 45.56 | 54.00 | -8.44 | Average | 122 | 101 | P |
| 6 | 4874.00 | 3.90 | 52.96 | 56.86 | 74.00 | -17.14 | Peak | 122 | 101 | P |
| 7 | 7311.00 | 8.48 | 30.39 | 38.87 | 54.00 | -15.13 | Average | 100 | 49 | P |
| 8 | 7311.00 | 8.48 | 42.90 | 51.38 | 74.00 | -22.62 | Peak | 100 | 49 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 10, CH06 | | : |

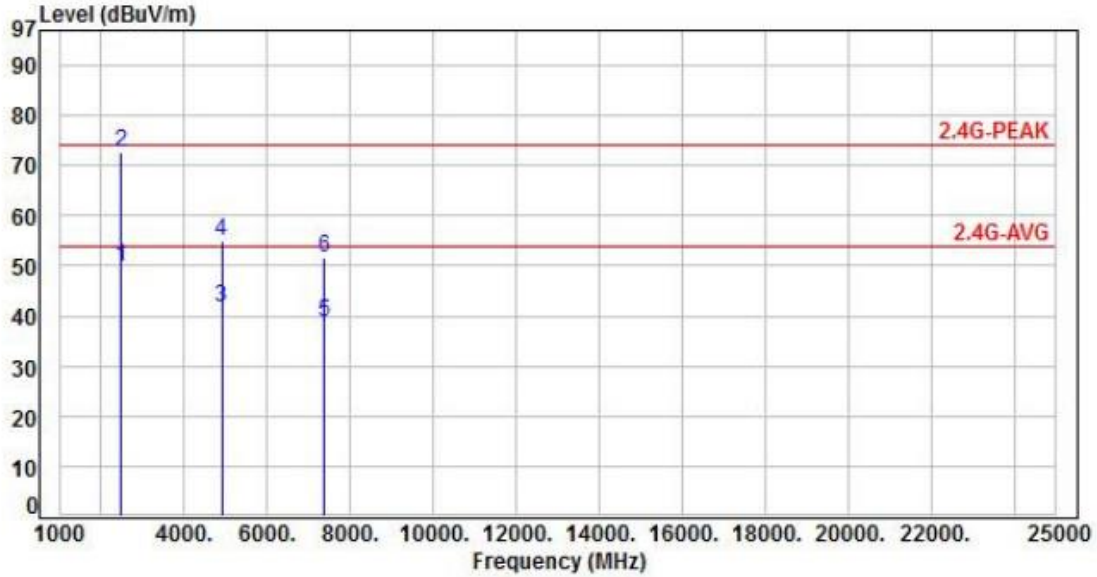


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2390.00 | -3.62 | 56.31 | 52.69 | 54.00 | -1.31 | Average | 100 | 305 | P |
| 2 | 2390.00 | -3.62 | 72.06 | 68.44 | 74.00 | -5.56 | Peak | 100 | 305 | P |
| 3 | 2483.50 | -3.40 | 53.88 | 50.48 | 54.00 | -3.52 | Average | 100 | 305 | P |
| 4 | 2483.50 | -3.40 | 71.58 | 68.18 | 74.00 | -5.82 | Peak | 100 | 305 | P |
| 5 | 4874.00 | 3.90 | 35.81 | 39.71 | 54.00 | -14.29 | Average | 100 | 54 | P |
| 6 | 4874.00 | 3.90 | 46.77 | 50.67 | 74.00 | -23.33 | Peak | 100 | 54 | P |
| 7 | 7311.00 | 8.48 | 30.14 | 38.62 | 54.00 | -15.38 | Average | 100 | 297 | P |
| 8 | 7311.00 | 8.48 | 41.83 | 50.31 | 74.00 | -23.69 | Peak | 100 | 297 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : VERTICAL |
| Test Mode | : Mode 10, CH09 | | : |

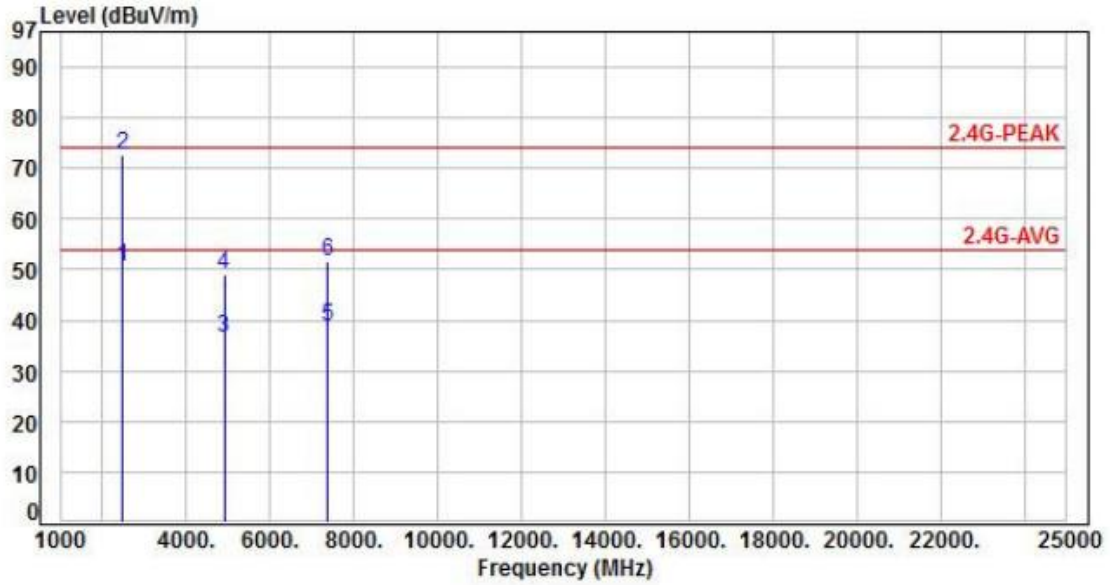


| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 53.28 | 49.88 | 54.00 | -4.12 | Average | 156 | 275 | P |
| 2 | 2483.50 | -3.40 | 76.04 | 72.64 | 74.00 | -1.36 | Peak | 156 | 275 | P |
| 3 | 4904.00 | 4.00 | 37.79 | 41.79 | 54.00 | -12.21 | Average | 100 | 102 | P |
| 4 | 4904.00 | 4.00 | 50.93 | 54.93 | 74.00 | -19.07 | Peak | 100 | 102 | P |
| 5 | 7356.00 | 8.58 | 30.07 | 38.65 | 54.00 | -15.35 | Average | 100 | 77 | P |
| 6 | 7356.00 | 8.58 | 42.95 | 51.53 | 74.00 | -22.47 | Peak | 100 | 77 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



| | | | |
|-----------|------------------|-----------|--------------|
| Power | : AC 120V / 60Hz | Pol/Phase | : HORIZONTAL |
| Test Mode | : Mode 10, CH09 | | : |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|----------------|----------------|-------------|----------|-------------|---------------|-----|
| 1 | 2483.50 | -3.40 | 53.79 | 50.39 | 54.00 | -3.61 | Average | 136 | 269 | P |
| 2 | 2483.50 | -3.40 | 75.97 | 72.57 | 74.00 | -1.43 | Peak | 136 | 269 | P |
| 3 | 4904.00 | 4.00 | 32.54 | 36.54 | 54.00 | -17.46 | Average | 400 | 114 | P |
| 4 | 4904.00 | 4.00 | 44.93 | 48.93 | 74.00 | -25.07 | Peak | 400 | 114 | P |
| 5 | 7356.00 | 8.58 | 30.17 | 38.75 | 54.00 | -15.25 | Average | 100 | 46 | P |
| 6 | 7356.00 | 8.58 | 43.09 | 51.67 | 74.00 | -22.33 | Peak | 100 | 46 | P |

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 – 0.11000 | 16.42000 – 16.42300 | 399.9 – 410.0 | 4.500 – 5.250 |
| 0.49500 – 0.505** | 16.69475 – 16.69525 | 608.0 – 614.0 | 5.350 – 5.460 |
| 2.17350 – 2.19050 | 16.80425 – 16.80475 | 960.0 – 1240.0 | 7.250 – 7.750 |
| 4.12500 – 4.12800 | 25.50000 – 25.67000 | 1300.0 – 1427.0 | 8.025 – 8.500 |
| 4.17725 – 4.17775 | 37.50000 – 38.25000 | 1435.0 – 1626.5 | 9.000 – 9.200 |
| 4.20725 – 4.20775 | 73.00000 – 74.60000 | 1645.5 – 1646.5 | 9.300 – 9.500 |
| 6.21500 – 6.21800 | 74.80000 – 75.20000 | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825 | 108.00000 – 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225 | 123.00000 – 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 – 8.29400 | 149.90000 – 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 – 8.36600 | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 – 8.38675 | 156.70000 – 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475 | 162.01250 – 167.17000 | 3260.0 – 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 – 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 – 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 – 335.40000 | 3600.0 – 4400.0 | Above 38.6 |
| 13.36000 – 13.41000 | | | |

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

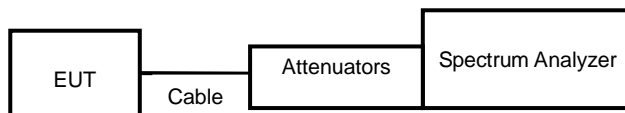
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Note: Test plots refers to the following pages.